

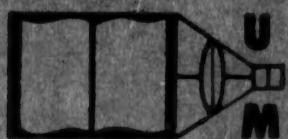
Vol. XXIII

No. 13

Dissertation Abstracts

INDEX TO
AMERICAN DOCTORAL
DISSERTATIONS

1962-1963



UNIVERSITY MICROFILMS, Inc.
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DOCTORAL DISSERTATION SERVICE

Cooperating Institutions

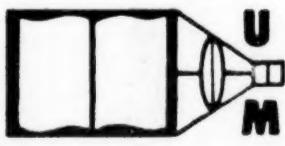
The University of Akron
University of Alabama
The American University
University of Arizona
Arizona State University
University of Arkansas
Auburn University
Ball State Teachers College
Université de Bordeaux (France)
Boston University (including Schools of Education and Theology)
Bowling Green State University
Bradley University
Brandeis University
Brigham Young University
The University of British Columbia (Canada)
Brown University
Bryn Mawr College
University of California (Berkeley, Davis, Los Angeles, Riverside,
San Diego, Santa Barbara and San Francisco)
California Institute of Technology
Carleton University (Canada)
Case Institute of Technology
The Catholic University of America
Universidad de Chile, S. A. (School of Economics)
University of Cincinnati (including School of Education)
The Claremont Graduate School
Clark University
Clemson College
University of Colorado
Colorado State College
Colorado State University
Columbia University (including Teachers College)
The University of Connecticut
Cornell University (including Cornell University Medical College)
University of Delaware
University of Denver
Drew University
Duke University
Emory University
The University of Florida
The Florida State University
Fordham University (including School of Education)
George Peabody College for Teachers
University of Georgia
The Hartford Seminary Foundation
Harvard University (Department of Chemistry)
University of Hawaii
University of Houston
Howard University
University of Idaho
University of Illinois (including University of Illinois at the Medical
Center)
Indiana University (including Schools of Education; Health, Phys. Ed.,
and Rec., and Music)
The Institute of Paper Chemistry, affiliated with Lawrence College
Institutum Divi Thomae Foundation
Iowa State University of Science and Technology
The Johns Hopkins University
University of Kansas
Kansas State University
Kent State University
University of Kentucky
Université Laval (Canada)
Lehigh University
Louisiana State University
University of Maine
Marquette University
University of Maryland
University of Massachusetts
University of Melbourne (Australia)
University of Miami
The University of Michigan
Michigan State University
University of Minnesota
The University of Mississippi (including Medical Center)

University of Missouri
Montana State University
The University of Nebraska (including School of Education)
University of New Hampshire
The University of New Mexico (including School of Education)
New Mexico State University
New School for Social Research
New York University (including School of Education)
The University of North Carolina at Chapel Hill
North Carolina State of the University of North Carolina at
Raleigh
North Texas State University
Northwestern University
University of Notre Dame
The Ohio State University
Ohio University
The University of Oklahoma
Oklahoma State University
University of Oregon
Oregon State University
University of the Pacific
Pacific School of Religion
University of Pennsylvania
The Pennsylvania State University
Philadelphia College of Pharmacy and Science
University of Pittsburgh
Polytechnic Institute of Brooklyn
Princeton Theological Seminary
Princeton University
Purdue University
University of Redlands
Rensselaer Polytechnic Institute
University of Rhode Island
Rice University
The University of Rochester
The Rockefeller Institute
Rutgers — The State University (including School of Education)
St. Louis University
University of South Carolina
South Dakota State College
University of Southern California
Southern California School of Theology
Southern Illinois University
University of Southern Mississippi
Stanford University
State University of Iowa
State University of New York, College of Ceramics at Alfred University
State University of New York at Buffalo (including School of Education)
State University of South Dakota
Stevens Institute of Technology
Syracuse University
Temple University (including School of Education)
The University of Tennessee
The University of Texas
Texas A&M University
Texas Technological College
University of Toronto (Canada)
Tulane University
Union Theological Seminary in the City of New York
University of Utah
Utah State University
Vanderbilt University
University of Virginia
Virginia Polytechnic Institute
Wake Forest College. The Bowman Gray School of Medicine of Wake
Forest College
University of Washington
Washington State University
Washington University
Wayne State University
Western Reserve University
Westminster Theological Seminary
The University of Wisconsin
Yale University
Yeshiva University (including School of Education and Sue Golding
Graduate Division of Medical Sciences)

INDEX TO AMERICAN DOCTORAL DISSERTATIONS

1962-1963

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THE ASSOCIATION OF RESEARCH LIBRARIES



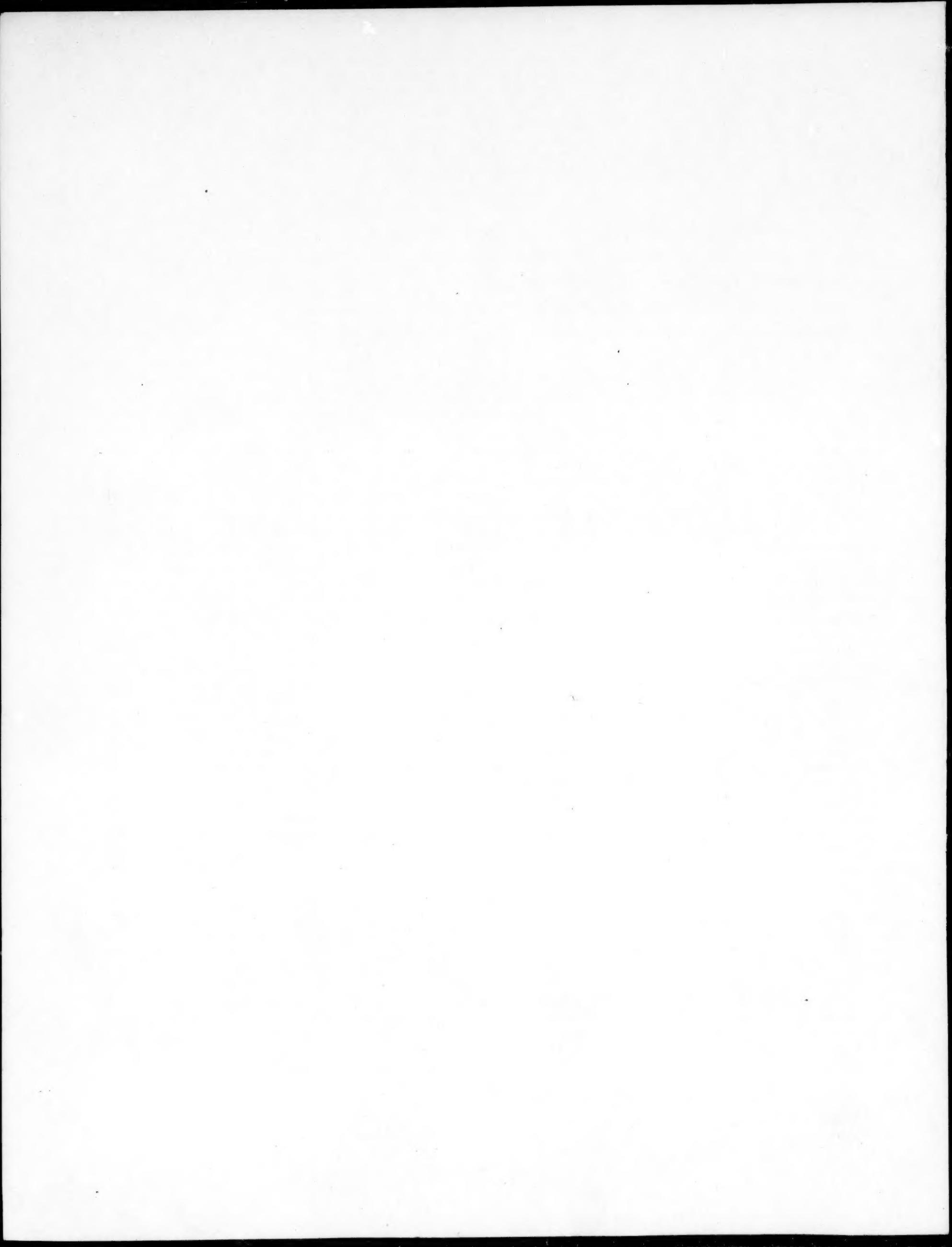
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BIOCHEMISTRY	12 Mechanics	General
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INTRODUCTION

DISSERTATION ABSTRACTS is a monthly compilation of abstracts of doctoral dissertations submitted to University Microfilms, Inc. by more than 140 cooperating institutions. Some institutions do not send all their doctoral dissertations. Also, the various institutions began using the doctoral dissertation program at different times. For instance, some who entered the program this year decided to publish their earlier dissertations; other schools have used the program for publishing only those dissertations that were ready at the time of entry or later. Only those dissertations which are released to University Microfilms can be abstracted in **DISSERTATION ABSTRACTS**. Copies of the complete text may be purchased either on microfilm or as enlarged prints.

For the Subject Index, each dissertation is listed under one or more subject headings as assigned by the Library of Congress from an examination of the abstract. Headings used by the Library in its Official Catalog are assigned if an appropriate one has been established; otherwise the headings are derived from the abstract.

Arrangement. Each issue of **DISSERTATION ABSTRACTS** consists of a principal section, a subject index and an author index. Number 12 is issued in two parts: Part I contains the abstracts, and Part II the cumulated subject and author indexes for issues 1 through 12.

INDEX TO AMERICAN DOCTORAL DISSERTATIONS is a complete listing of all doctoral dissertations accepted by American and Canadian universities. It is compiled from commencement programs issued by the universities and the success of each issue depends on the cooperation of these universities. It includes a number of dissertations which are not included in **DISSERTATION ABSTRACTS**, as well as a number which will be carried in later issues. This is published on a school-year basis and is arranged by subject categories and institutions. An author index is an integral part of each publication. For further information, please write directly to University Microfilms.

During the academic year 1962-1963, 13,108 doctoral dissertations were reported by American universities. This is an increase of 1,281 over the previous academic year, and again is a record number.

A check of the doctoral degrees granted, by broad subject fields, shows that the percentage of students in the various categories remains fairly constant from year to year. A ten-year summary of degrees granted is given below:

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Philosophy	104	100	96	96	104	123	137	159	158	176
Religion	152	138	140	159	180	184	235	202	238	243
Physical Sciences	2417	2397	2383	2331	2384	2833	2788	3353	3923	4716
Earth Sciences	239	232	413	231	249	285	324	725	764	616
Biological Sciences	2509	2480	2157	2146	2233	2084	2483	1737	1992	2169
Social Sciences	2745	2657	2649	2576	2813	2890	2956	3145	3633	3945
Humanities	834	808	861	824	836	896	1004	1022	1119	1243
Totals	9,000	8,812	8,699	8,363	8,799	9,295	9,927	10,343	11,827	13,108

Table II gives a more detailed distribution.

Following the List of Current University Serial Publications Abstracting Dissertations is Table I, which details the Practices of Publication and Loan of Doctoral Dissertations. Several of the institutions listed began cooperating in the publication of microfilmed dissertations and the abstracting of these in **DISSERTATION ABSTRACTS** during the year. New participants in the cooperative project are:

University of California (Riverside)

Université Laval (Canada)

Wake Forest College. The Bowman Gray School of Medicine of Wake Forest College

Table III gives the distribution of doctoral degrees granted, by university and subject. By comparing the 1962-1963 interests with those of previous years, small shifts in emphasis and the beginnings of trends can sometimes be noticed.

**LIST OF CURRENT UNIVERSITY SERIAL PUBLICATIONS
ABSTRACTING DISSERTATIONS**

- Agricultural and Mechanical College
of Texas *See Texas A. & M. University*
University of Arkansas Abstracts of dissertations. v. 1, 1953-1958. (ea. 5 yrs.)
Bowling Green State University Doctoral abstracts to be included with future volumes of master's
abstracts.
Brigham Young University Abstracts of theses and dissertations. v. 1, 1958. (annually)
Case Institute of Technology Research at Case: projects, theses abstracts, faculty publications.
v. 1, 1953. (annually)
Clark University Dissertations and theses. v. 1, 1953. (annually)
Clemson Agricultural College Clemson College abstracts of theses. v. 1, 1959-
The University of Florida Abstracts of doctoral studies in education. v. 1, 1952- (not published
1954)
The General Theological Seminary Bulletin of The General Theological Seminary, June issue. v. 1, 1950-
George Peabody College for Teachers Abstracts of dissertations for the year _____. v. 1, 1951. (annually)
The George Washington University Summaries of doctoral dissertations. v. 1, 1925-1928.
Georgia Institute of Technology Abstracts of theses. v. 1, 1953. (biennially)
Illinois Institute of Technology Publications of Illinois Institute of Technology. v. 1, 1952-
Indiana University (School of
Education) Studies in education, 19-- (thesis abstract series) v. 1, 1950.
(annually)
Institute of Paper Chemistry,
affiliated with Lawrence College Abstract bulletin of the Institute of Paper Chemistry. v. 1, 1931.
(monthly)
Massachusetts Institute of Technology Abstracts of theses accepted . . . for doctors degree with a list of
titles accepted for the engineers degree and masters degree. v. 1,
1951-
University of Mississippi Dissertation abstracts published at irregular intervals.
Mississippi State University Mississippi State University, abstracts of theses. v. 1, 1953-
University of Missouri Abstracts of *dissertations in education*. v. 1, 1938. (ea. 2 yrs.)
University of North Dakota Abstracts of doctoral dissertations and masters theses. v. 1, 1955.
(annually)
Ohio University Abstracts of theses and dissertations. Annually since 1939.
St. John's University Abstracts of dissertations. v. 1, 1939. (annually)
Southern Methodist University Abstracts of theses. v. 20 to include doctoral abstracts. (biennially)
S.U.N.Y., College of Ceramics at
Alfred University State University of New York College of Ceramics at Alfred Univer-
sity, Alfred, N. Y. Monthly progress report. v. 1, 1958.
S.U.N.Y., College of Forestry
at Syracuse Graduate theses. v. 1, 1955. (ea. 5 yrs.)
Texas A. & M. University Abstracts of dissertations for the degree of doctor of philosophy.
v. 1, 1940-1955; v. 2, 1956-1962.
Texas Technological College Theses accepted by Texas Technological College. v. 1, 1956.
University of Utah Abstracts of doctoral dissertations. v. 1, 1959.
Utah State University Abstract series—Utah State University, v. 1, 1962. (annually)
University of Wyoming University of Wyoming publications. v. 1, 1929. (annually)

**PUBLICATION, PRESERVATION AND LENDING OF AMERICAN
DOCTORAL DISSERTATIONS**

The Association of Research Libraries has endorsed publication by microfilm and the publication of an abstract as one means of making dissertations available to scholars and research workers. Publication practices are found in Table I.

Many of the doctoral dissertations written each year are abstracted in *Dissertation Abstracts* and reproduced in full as positive microfilm or as xerographic enlargements printed on paper. Institutions cooperating in this project are listed separately on the inside front cover of *Dissertation Abstracts*. Generally speaking, dissertations of these institutions may be secured direct from University Microfilms.

Graduate schools not requiring the publication of their dissertations will usually lend these on interlibrary loan. Inquiries for such dissertations should be addressed to the holding institution through a reference library.

TABLE I

Practices of Publication and Loan of Doctoral Dissertations, 1962-1963

University	Printing Required	Accepts Micro-filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Adelphi College	No	No	No	2	Yes	No
Agricultural and Mechanical College of Texas			See Texas A. & M. University.			
University of Akron	No	Yes ¹	No	2	No	
University of Alabama	No	Yes ¹	No	2	Yes	
University of Alaska	No	Yes	No	2	Yes	No
University of Alberta	No	No	No	2	Yes	No
Alfred University			No information received.			
The American University	No	Yes ¹	No	1	Yes ⁴	No
University of Arizona	No	Yes ¹	No	2	No	No
Arizona State University	No	Yes ¹	Yes	2	Yes	No
University of Arkansas	No	Yes ¹	Yes	2	Yes	No
Atlanta University ²³	Yes	Yes	Yes	2	Yes	
Auburn University	No	¹	No	2	Yes	No
Ball State Teachers College ²³	Yes	Yes ¹	No	3	No	No
Baylor University	No	Yes	No	1	Yes	No
Bob Jones University	No		No	2	Yes	
Boston College	No		No	3	Yes	
Boston University, Graduate School	No	No ¹	No	1	No	No
School of Education	No	Yes ¹	Yes ³	3	Yes	No
School of Fine and Applied Arts	Yes		Yes	2	Yes	
School of Nursing	No	No	Yes	2	Yes	No

¹ Cooperates with University Microfilms, Inc., Ann Arbor, Mich. For additional information see "Introduction" in issues of *Dissertation Abstracts*.

² Prior to 1963 only.

³ Not systematically.

⁴ If no microfilm copy available.

⁵ Up to June, 1960; thereafter, no.

⁶ Four copies for engineer dissertations.

⁷ Limited to institutions of higher learning in California.

⁸ Only if O.P.

⁹ Requires microfilm; also, xerography or publication in scholarly journals.

¹⁰ Dissertations may be typescripts or reprints of journal articles. All are then microfilmed.

¹¹ When available.

¹² Prior to 1954; thereafter, no.

¹³ Not enforced.

¹⁴ Prior to 1958; thereafter, no.

¹⁵ Chemistry abstracts only.

¹⁶ Education abstracts only.

¹⁷ Photo copies are available.

¹⁸ Varies by school.

¹⁹ Two copies filed if all parts cannot be microfilmed.

²⁰ Lends microfilm copies.

²¹ Microfilm and printed copies required.

²² Multilith copies.

²³ Institution has doctorate program but no degrees granted as of June, 1963.

²⁴ To be effective with future candidates.

²⁵ Two copies of Ed.D. dissertations.

²⁶ Or microcard.

²⁷ Available from the research department.

²⁸ Two copies before 1953.

²⁹ Yes, for physical sciences and engineering only.

³⁰ No, for physical sciences only.

University	Printing Required	Accepts Micro-filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Boston University, School of Theology	No	Yes ¹	No	1	Yes	
Bowling Green State University	No	Yes ¹	Yes	2	No	
Bradley University	No	Yes ¹	No	2	Yes ⁴	No
Brandeis University	Yes	Yes ^{1,9}	No	1	Yes	Yes
Brigham Young University	No	Yes ¹	Yes	4	Yes	No
University of British Columbia	No	No ¹	No	2	Yes	No
Brown University	No	Yes ¹	No	2	Yes	No
Bryn Mawr University	Yes	Yes ¹	No	1		Yes
University of California, Berkeley	No	Yes ¹	No	1	No	No
University of California, Davis	No	No	No	1	Yes ⁵	No
University of California, Los Angeles	No	Yes ¹	No	3 ⁶	Yes ⁷	No
University of California, Riverside	No	¹	No	2	Yes	No
University of California, San Francisco Medical Center	No	Yes	No	1	No ²⁰	No
University of California, Santa Barbara	No	Yes	Yes	2	Yes	
California Institute of Technology	No	No	No	3	Yes	No
Calvin Coolidge College ²³	No	Yes	No	1	Yes	No
Carleton University	No	Yes ¹	No	3	Yes	
Carnegie Institute of Technology	Yes	No	No	2	Yes	Yes
Case Institute of Technology	No	Yes ¹	Yes	2	No	No
The Catholic University of America	No	Yes ¹	Yes	1	No	No ⁸
University of Chicago	No	Yes	No	1	No ¹⁰	
University of Cincinnati	No	Yes ¹	No	2	Yes	No
The City University of New York ²³						
Brooklyn College				No information received.		
Hunter College				No information received.		
Claremont Graduate School	No	No ¹	No	2	Yes	No
Clark University	No	Yes ¹	Yes	1	No	
Clarkson College of Technology ²³	No	Yes	No	2	Yes	No
Clemson Agricultural College	No		Yes	1	Yes	
University of Colorado	No	Yes ¹	No	1	No	No
Colorado School of Mines	No	No	No	3	Yes	No
Colorado State College	No	Yes ¹		2	Yes	No
Colorado State University	No	No ¹	No	2	No	No
Columbia University	No	Yes ¹	No	2	Yes	Yes
Columbia University Teachers College	No	Yes ¹	No	2	Yes	Yes ¹¹
Combs College of Music				No information received.		
Concordia Seminary	No	No	No	2	No	No
University of Connecticut	No	Yes ¹	No	2	Yes	No
Cornell University	No	Yes ¹	No	2	Yes ¹²	Yes ¹¹
Cornell University Graduate School of Medical Sciences	Yes	Yes ¹	No	1	No	No
Dallas Theological Seminary	No	No	No	2	Yes	No
University of Delaware	No	Yes ¹	No	2	Yes	No
University of Denver	No	Yes ¹	No	1	Yes	
Drew University	No	¹	No	3	Yes	
The Dropsie College	Yes ¹³	Yes	No	2	Yes	Yes
Duke University (including School of Forestry)	No	Yes ¹	No	2	Yes ¹⁴	Yes ¹¹
Duquesne University	Yes	No	Yes ¹⁵	3	Yes	No
Emory University	No	Yes ¹	No	2	No	No
Fletcher School of Law and Diplomacy	No	No	No	2	Yes	
The University of Florida	No	¹	Yes ¹⁶	2	Yes	No
The Florida State University	No	Yes ¹	No	2	Yes	No
Fordham University	No	Yes ¹	No	2	Yes	
The General Theological Seminary	No		Yes	1	Yes	
George Peabody College for Teachers	No	Yes ¹	Yes	2	Yes	
The George Washington University	No		Yes	3	Yes	
Georgetown University	No	No	No	2	Yes	No
University of Georgia	No	Yes ¹	No	2	Yes	No

University	Printing Required	Accepts Micro-filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Georgia Institute of Technology	No	No	Yes	3	Yes	No
Georgia State College ²³			No information received.			
Grace Theological Seminary and Grace College			No information received.			
Hahnemann Medical College and Hospital	No	No	No	1	Yes	No
The Hartford Seminary Foundation	No	Yes ¹	No	1	No	Yes
Harvard University	No		No	2	Yes	Yes ¹¹
University of Hawaii	No	No ¹	No	2	Yes	No
Hebrew Union College—Jewish Institute of Religion, Cincinnati	No	Yes	No	2	Yes	Yes ¹¹
Hebrew Union College—Jewish Institute of Religion, Los Angeles	No	No	No	2	Yes	
Hebrew Union College—Jewish Institute of Religion, New York			No information received.			
University of Houston	No	Yes ¹	No	1	No	No
Howard University	No	Yes ¹	No	1	Yes	
University of Idaho	No	Yes ¹	No	2	Yes	No
The Iliff School of Theology	No	No	No	2	Yes	
University of Illinois (including University of Illinois at the Medical Center)	No	Yes ¹	No	2	Yes ⁴	Yes
Illinois Institute of Technology	No	No	Yes	1	Yes	No
Indiana University, Graduate School	No	Yes ¹	No	2	Yes	
School of Business	No	No	No	3	Yes	No
School of Education	No	Yes ¹	Yes	2	No	
School of Health, Physical Education and Recreation	No	Yes ¹	No	4	Yes	No
School of Music	No	Yes ¹	No	2	Yes	No
The Institute of Paper Chemistry, affiliated with Lawrence College	No	No ¹	No	1	Yes	No
Institutum Divi Thomae	No	¹	No	3	Yes	
Iowa State University of Science and Technology	No	Yes ¹	No	2	Yes	Yes
Jefferson Medical College of Philadelphia			No information received.			
The College of Jewish Studies	No	Yes	No ³	4	Yes	Yes
Jewish Theological Seminary of America	No	No	No	1	No	Yes
The Johns Hopkins University	No	Yes ¹		2	Yes ¹¹	
University of Kansas	No	Yes ¹	No	2	Yes	Yes ¹¹
University of Kansas City	No	No	No	2	Yes	No
Kansas State University	No	Yes ¹	No	3	Yes	
Kent State University	Yes	Yes ¹	No	2	Yes	No ⁴
University of Kentucky	No	No ¹	No	2	Yes	No
Université Laval	Yes	No ¹	Yes	3	Yes	Yes
Lawrence College			See Institute of Paper Chemistry.			
Lehigh University	No	Yes ¹	No	0	No	No
Loma Linda University	No	No	No	2	Yes	No
Louisiana State University	No	¹	No	1	Yes	No
University of Louisville	No		No	1	No	No
Lowell Technological Institute	No	Yes	No	2	No ¹⁷	
Loyola University, Chicago	No		No	2	Yes	Yes
Lutheran School of Theology at Chicago	No		No	2	Yes	
University of Maine	No	Yes ¹	No	1	Yes	
Marquette University		Yes ¹	Yes	2	Yes	
University of Maryland	No	¹	No	2	Yes	
University of Massachusetts	No	No ¹	No	1	Yes	Yes
Massachusetts College of Pharmacy	No	No	No	2	Yes	
Massachusetts Institute of Technology	No	No	Yes	1	No	No
McGill University	No		No	2	Yes	
University of Miami	No	Yes ¹	No	3	Yes	No
The University of Michigan	No	Yes ¹	No	1	Yes	No
Michigan State University	No	Yes ¹	No	1	Yes	Yes

University	Printing Required	Accepts Micro-filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Middlebury College	No	No	No	2	Yes	No
University of Minnesota	No	Yes ¹	No	2	Yes	No
The University of Mississippi	Yes	Yes ¹	Yes	2	Yes	
The University of Mississippi School of Medicine	No	Yes	No	1	Yes	No
Mississippi State University	No	No	Yes	2	Yes	Yes
University of Missouri	No	Yes ¹	Yes ¹⁸	1		No
Montana State College	No		No	2	Yes	
Montana State University	No	Yes ¹	Yes ³	1	No	No
University of Nebraska (including Teachers College)	No	Yes ¹	No	2	Yes ⁴	Yes
Ner Israel Rabbinical College	No		No	1	No	Yes
University of Nevada ²³			No information received.			
Newark College of Engineering ²³			No information received.			
University of New Brunswick	No		No	2	Yes	No
University of New Hampshire	No	Yes ¹	No	2	No	No
University of New Mexico	No	Yes ¹	No	2	Yes	No
New Mexico Highlands University ²³	No	Yes	Yes	2	Yes	No
New Mexico Institute of Mining and Technology	No	Yes	No	2	Yes	Yes ⁴
New Mexico State University	No	Yes ¹	No	3	Yes	
New Orleans Baptist Theological Seminary	No	No	No	2	Yes	No
New School for Social Research	No	Yes ¹	No	1		
New York Law School	No	No	No	9	Yes	No
New York Medical College			No information received.			
New York University	No	Yes ¹	No	¹⁸	No	No
University of North Carolina at Chapel Hill	No	Yes ¹	No	2		
North Carolina College at Durham	No		No	2	Yes	
North Carolina State of the University of North Carolina at Raleigh	No		No	1	No	No
University of North Dakota	No	Yes	Yes	¹⁹	Yes	No
North Dakota State University	No	Yes	No	2	Yes	
North Texas State University	No	Yes ¹	No	2	Yes	No
Northeastern University ²³			No information received.			
Northwestern University	No	No ¹	No	1	Yes	
University of Notre Dame	No ²⁹	Yes ³⁰	No	2	No	Yes ⁴
Occidental College	No	Yes	No	1	No	No
Ohio University	No	Yes ¹	Yes	2	Yes	
The Ohio State University	Yes	Yes ¹	No	2	Yes	No
The University of Oklahoma	No	Yes ¹	No	2	Yes	
Oklahoma State University	No	Yes ¹	Yes	2	Yes	
University of Oregon	No	Yes ¹	No	2	Yes	No
Oregon State University	No	¹	No	2	Yes	
University of the Pacific	No	Yes ¹	No	2	Yes	
Pacific School of Religion	No	Yes ¹	No	2	Yes	Yes
University of Pennsylvania (including School of Education)	No	Yes ¹	Yes	2	Yes	No
School of Social Work	No	Yes ¹	No	1	No ²⁰	
Pennsylvania State University	No	Yes ¹	No	2	Yes	No
Philadelphia College of Pharmacy and Science	Yes	No ²¹	Yes	1	No	Yes
University of Pittsburgh	No	Yes ¹	No	2-3	No	No
Pittsburgh Theological Seminary	No	No	No	2	Yes	
Polytechnic Institute of Brooklyn	Yes	No ¹	Yes	1	Yes	Yes
University of Portland	No	No	No	3	Yes	No
Princeton Theological Seminary	No	Yes ¹	No	2	No ⁵	No
Princeton University	No	No ¹	No	2	Yes	No
Purdue University	No	Yes ¹	No	1	Yes	No
University of Redlands	No	No ¹	No	2	Yes	
Rensselaer Polytechnic Institute	No	Yes ¹	Yes	1	No	No

University	Printing Required	Accepts Micro-filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
University of Rhode Island	No	Yes ¹	No	2	Yes	
Rice University	No	¹	No	3	Yes	
The University of Rochester	No	No ¹	No	2	Yes	
The Rockefeller Institute	Yes	No ¹	No	2 ²²	No	Yes
Rutgers - The State University	No	Yes ¹	No	1	Yes ⁴	
St. Bonaventure University	No	No	No	3	Yes	
St. John's University	No	No	Yes	2	Yes	No
St. Louis University	No	Yes ¹	No		Yes ⁴	
St. Mary of the Lake Seminary	Yes	No	No	0	No	Yes
St. Mary's Seminary and University			No information received.			
San Francisco Theological Seminary	Yes	No	No	2	Yes ¹¹	No
University of Saskatchewan			No information received.			
Smith College	No		No	2	Yes	Yes
University of South Carolina	No	Yes ¹	No	2	Yes	No
Medical College of South Carolina	No	No	No	2	Yes	
South Dakota State College	No	Yes ¹	No	2	No	No
Southern Baptist Theological Seminary	No	No	Yes ²⁴	2	Yes	No
University of Southern California	No	No ¹	No	1 ²⁵	Yes ⁴	Yes ⁴
Southern California School of Theology	No	No	No	1	Yes	No
Southern Illinois University	No	Yes ¹	No	2	No	No
Southern Methodist University	No		Yes	2	Yes	
University of Southern Mississippi	No	Yes ¹		2	Yes	
Southwestern Baptist Theological Seminary	No	Yes	No	2	Yes ⁴	No
Springfield College	No	Yes ²⁶	No	3	Yes	
Stanford University	No	No ¹	No	3-4	Yes ⁴	No
State University of Iowa	No	Yes ¹	No	1	No	No
State University of New York at Albany	No	No ^{1,21}	No	1	No	No
College at Buffalo	No	Yes ¹	No	2	Yes	No
College of Ceramics	Yes	No ¹	Yes	1	Yes ²⁷	Yes
College of Forestry	No		Yes	2	Yes	No
Downstate Medical Center	No	No	No	2	Yes	No
Graduate School of Public Affairs	No	Yes	No	1	Yes	No
Upstate Medical Center			No information received.			
State University of South Dakota	No	Yes ¹	No	2	Yes	No
Stevens Institute of Technology	No	Yes ¹	Yes	1	No	No
Syracuse University	No	Yes ¹	No	1	Yes	No
Temple University	No	Yes ¹	No	2	Yes ⁴	Yes
The University of Tennessee	No	Yes ¹	No	2	No	
The University of Texas	No	No ¹	No	1	No	
Texas Christian University ²³			No information received.			
Texas A. & M. University	No	No ¹	Yes	2	No ²	No
Texas Technological College	No	Yes ¹	Yes	2	Yes	
Texas Woman's University	No		No	2	Yes	
University of Toledo			No information received.			
University of Toronto	Yes	No ¹	No	2	Yes	No
Tufts University	No	No	No	2	Yes	No
Tulane University	No	Yes ¹	No	1	No	No
University of Tulsa	No	No	No	2	Yes	No
Union College and University	No	Yes	No	2	Yes ⁴	No
Union Theological Seminary, New York	No	¹	No	1	Yes	
Union Theological Seminary, Virginia	No		³	2	Yes	Yes ¹¹
U.S. Naval Postgraduate School	No	No	No	3	Yes	No
University of Utah	No	No ¹	No	2	No	No
Utah State University	No	¹	Yes	1	Yes	
Vanderbilt University	No	Yes ¹	No	2	Yes	
University of Vermont	No	Yes	No	3	Yes	No
University of Virginia, Graduate School	No	¹	No	2	Yes ⁴	
School of Education	No	Yes	No	2	Yes	
School of Engineering	Yes	No	No	3	Yes	No
School of Law	Yes	No	No	1	Yes	No

University	Printing Required	Accepts Micro-filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Medical College of Virginia	No	No	No	1	Yes	No
Virginia Polytechnic Institute	Yes	Yes ¹	No	3	Yes	Yes
Wake Forest College	Yes	No	No	2	No	No
Washington State University	No	No ¹	No	2	Yes	No
Washington University	No	Yes ¹	No	1 ²⁸	Yes	
University of Washington	No	Yes ¹	No	2	Yes	No
Wayne State University	No	Yes ¹	No	2	No	No
West Virginia University	No	No	No	2	Yes	No
Western Reserve University	No		No	2	Yes	
Westminster Theological Seminary	No	Yes ¹	No	2	Yes	Yes
University of Wichita				No information received.		
The University of Wisconsin	No	Yes ¹	No	1	No	No
Woman's Medical College of Pennsylvania	No	Yes	No	1	Yes	No
Woodstock College	Yes	No	No	1	No	Yes
Worcester Polytechnic Institute	No	No	No	2	No	No
University of Wyoming	No	No	Yes	2	Yes	Yes
Yale University (including Yale School of Drama)	No	No ¹	No	2	Yes	No
Yeshiva University	No	Yes ¹	No	1	Yes	

STATISTICAL TABLES

A ten-year comparative tabulation of doctoral dissertations by subject fields is shown in Table II.

Table III gives an analysis by universities and by subjects for the current year. Such tables were compiled also for the preceding volumes in this series. In the American Council on Education's *American universities and colleges*, 3d ed. (p. 54-75) will be found similar tables for the years 1925-35.

In order to avoid misinterpretations, it must be made clear that the lists in this series are not limited to dissertations written for the Ph.D. degree, but that dissertations written for other kinds of doctoral degrees, e.g. in Education, Science, Jurisprudence, Canon Law and Theology, are also included.

SYMBOLS AND ABBREVIATIONS

† Indicates dissertations accepted prior to academic year covered by this volume, but not previously reported. These titles are not counted in the statistical tables.

TABLE II
DISTRIBUTION OF DOCTORATES FOR THE YEARS
1954-1963

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Philosophy	104	100	96	96	104	123	137	159	158	176
Religion	152	138	140	159	180	184	235	202	238	243
Astronomy	18	17	24	9	23	20	16	17	32	34
Biophysics						18	16	16	25	20
Chemistry	1169	1150	970	1016	1231	1272	1370	1425	1499	1539
Engineering	383	378	572	492	605	668	790	923	1188	1360
Mathematics	233	249	256	240	245	295	294	327	402	495
Metallurgy	66	75	27	70	1	1	1	1	1	1
Physics	548	528	534	504	529	560	582	645	777	894
Geography	46	52	58	47	60	55	66	53	62	75
Geology	130	131	145	152	162	206	228	205	205	268
Geophysics	20	17	12	2	2	2	2	2	2	13
Meteorology	13	6	7	24	2	2	2	2	2	2
Mineralogy	12	8	9	8	8	16	7	17	11	10

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Oceanography						8	7	5	10	8
Paleontology	17	18	6	3	3	3	3	3	3	3
Agriculture	225	216	176	206	345	407	437	445	476	438
Anatomy	42	40	35	26	31	36	31	40	41	53
Bacteriology	329	298	189	119	134	101	97	113	107	124
Biochemistry	322	335	307	205	4	4	4	4	4	94
Biology—Genetics					160	146	196	152	198	262
Botany	144	130	154	164	133	140	151	145	160	194
Entomology	98	99	41	5	5	5	5	5	5	20
Food Technology					31	40	39	30	28	40
Genetics	55	65	89	124	6	6	6	6	6	6
Health Sciences					56	72	152	100	126	148
Horticulture	67	65	114	152	7	7	7	7	7	7
Medicine & Surgery	52	65	29	46	8	8	8	8	8	8
Microbiology						44	49	37	82	74
Pharmacology	96	90	104	67	57	58	68	68	70	89
Physiology	131	130	126	134	144	115	92	114	132	131
Psychology	735	740	727	569	628	687	634	666	738	796
Public Health	9	17	22	23	8	8	8	8	8	8
Zoology	205	190	220	261	284	237	273	272	310	321
Anthropology	53	44	44	62	48	54	63	46	86	79
Business Administration										42
Economics	502	478	429	381	472	462	494	548	623	658
Education	1428	1409	1418	1333	1485	1503	1440	1554	1866	1896
History	289	254	284	330	332	354	375	393	390	433
Home Economics	11	8	10	58	23	16	28	30	37	32
International Law & Relations .	52	49	54	59	9	9	9	9	9	9
Law	13	13	23	22	22	14	16	17	21	14
Library Science	3	7	14	8	19	9	22	20	11	22
Political Science	162	167	203	141	193	226	246	248	287	318
Social Psychology					44	39	76	74	75	101
Social Work										62
Sociology	222	228	170	182	175	213	196	215	237	289
Art & Archaeology	31	40	33	35	10	10	10	10	10	10
Biography					7	3	6	7	10	17
Fine Arts					49	41	39	48	31	41
Folklore					2	3	5	4	3	
Journalism					8	14	21	18	10	15
Language & Literature, General	15	10	64	183	214	264	254	309	338	313
Language & Literature, Classical	42	36	23	24	29	24	28	39	45	39
Language & Literature, Linguistics					33	59	45	56	47	64
Language & Literature, Modern					332	263	250	298	252	295
Literature, English	355	345	319	11	11	11	11	11	11	11
Literature, Romance	124	119	148	11	11	11	11	11	11	11
Literature, Germanic	55	30	51	11	11	11	11	11	11	11
Literature, E. European	9	17	11	11	11	11	11	11	11	11
Literature, Oriental	24	19	26	11	11	11	11	11	11	11
Music	62	62	84	89	96	101	138	145	132	185
Speech—Theater	117	130	103	128	109	154	161	152	190	200
Totals	9,000	8,812	8,699	8,363	8,799	9,295	9,927	10,343	11,827	13,108

¹ Included in Engineering.

² Included in Physics.

³ Omitted as a separate field.

⁴ Included in Chemistry.

⁵ Included in Zoology.

⁶ Included in Biology—Genetics.

⁷ Included in Agriculture.

⁸ Included in Health Sciences.

⁹ Included in Political Science.

¹⁰ Included in Fine Arts or History, Archaeology.

¹¹ Included in other branches of Language and Literature.

TABLE III
DISTRIBUTION OF
DOCTORATES FOR THE
YEAR 1962-1963
BY UNIVERSITY AND
BY SUBJECT

Duquesne University	6	1	6	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Emory University	2	1	3	1	1	5	5	2	1	6	4	4	3	1	1	2	10	5	6	2	2	1	
Fletcher Sch. of Law & Dipl.	1	1	1	1	1	1	2	1	3	2	2	1	4	2	1	2	5	1	3	1	1	1	
The University of Florida	2	1	3	1	1	1	10	10	10	2	1	2	1	2	5	1	12	1	1	1	1	1	
The Florida State University	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fordham University	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
The General Theological Seminary	No information received.																						
George Peabody Coll. for Teach.	1	1	3	1	1	7	2	1	1	1	3	2	1	1	4	4	4	6	7	5	11	1	
The George Washington University	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Georgetown University	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Harvard University	17	1	4	11	2	21	1	24	20	1	1	2	1	1	12	7	7	3	2	6	13	7	
University of Hawaii	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Hebrew Union College—Jewish Inst. of Religion, Cincinnati	No degrees granted 1962-1963.																						
Hebrew Union College—Jewish Inst. of Religion, Los Angeles	No information received.																						
Hebrew Union College—Jewish Inst. of Religion, New York	No information received.																						
Hahnemann Med. Coll. & Hospital	1	2	2	2	1	1	1	3	4	5	5	25	11	22	7	8	5	9	23	4	1	1	
The Hartford Seminary Foundation																							
Harvard University	17	1	4	11	2	21	1	24	20	1	1	2	1	1	12	7	7	3	2	6	13	7	
Hebrew Union College—Jewish Inst. of Religion, Cincinnati	No degrees granted 1962-1963.																						
Hebrew Union College—Jewish Inst. of Religion, Los Angeles	No information received.																						
Hebrew Union College—Jewish Inst. of Religion, New York	No information received.																						
Hebrew University	1	2	2	2	1	1	1	7	2	2	8	3	3	10	4	29	17	3	14	13	1	12	14
University of Idaho																							
The Iliff School of Theology																							
Univ. of Illinois (including Univ. of Illinois at the Medical Center)	2	3	1	4	6	4	2	6	6	4	5	25	11	22	7	8	5	9	23	4	1	1	
Illinois Institute of Technology																							
Indiana University	1	2	2	2	1	1	1	3	4	5	5	1	2	8	3	3	10	4	29	17	3	14	13
The Institute of Paper Chemistry affiliated with Lawrence College																							
Institutum Divi Thomae																							
Iowa State University of Science and Technology	11	6	6	2	2	7	9	8	8	3	2	6	15	12	2	2	1	1	5	2	16	1	
Jefferson Medical College of Philadelphia	No information received.																						
The College of Jewish Studies	No degrees granted 1962-1963.																						
Jewish Theol. Sem. of America	No information received.																						
The Johns Hopkins University	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
University of Kansas	1	3	2	2	1	1	1	2	2	5	5	1	1	1	1	1	1	1	1	1	1	1	
Kansas City University	2	1	1	3	1	1	1	3	2	2	5	1	1	1	1	1	1	1	1	1	1	1	
Kent State University	No degrees granted 1962-1963.																						
University of Kentucky	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	
Université Laval																							
Lawrence College (see Institute of Paper Chemistry)																							
Lehigh University	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Loma Linda University	No degrees granted 1962-1963.																						
Louisiana State University	9	4	4	1	1	1	1	1	1	3	3	8	2	2	5	1	1	2	10	1	2	2	
University of Louisville																							
Lowell Technological Institute	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Loyola University, Chicago																							
Lutheran School of Theology at Chicago																							
University of Maine	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Marquette University	3	6	8	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
University of Maryland	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
University of Massachusetts	No information received.																						
Mass. Inst. of Pharmacy	1	1	1	1	3	1	1	8	3	4	5	6	7	2	1	1	1	1	1	1	1	1	
McGill University																							
University of Miami	12	2	5	3	6	1	1	9	2	1	1	11	6	5	3	9	4	2	7	6	2	1	
The University of Michigan	5	1	1	1	1	7	1	2	3	1	5	1	8	5	2	6	6	1	1	9	17	2	
Michigan State University	4	6	3	4	12	2	1	6	6	2	1	13	1	8	1	6	1	17	4	3	1	9	4
Middlebury College																							
University of Minnesota																							
The University of Mississippi	1	1	1	2	1	1	1	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
University of Missouri	2	1	2	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Montana State College																							
Montana State University																							
University of Nebraska (including Teacher's College)	1	2	1	2	3	2	1	6	2	3	2	1	5	13	1	4	5						

TABLE III
DISTRIBUTION OF
DOCTORATES FOR THE
YEAR 1962-1963
(Continued)

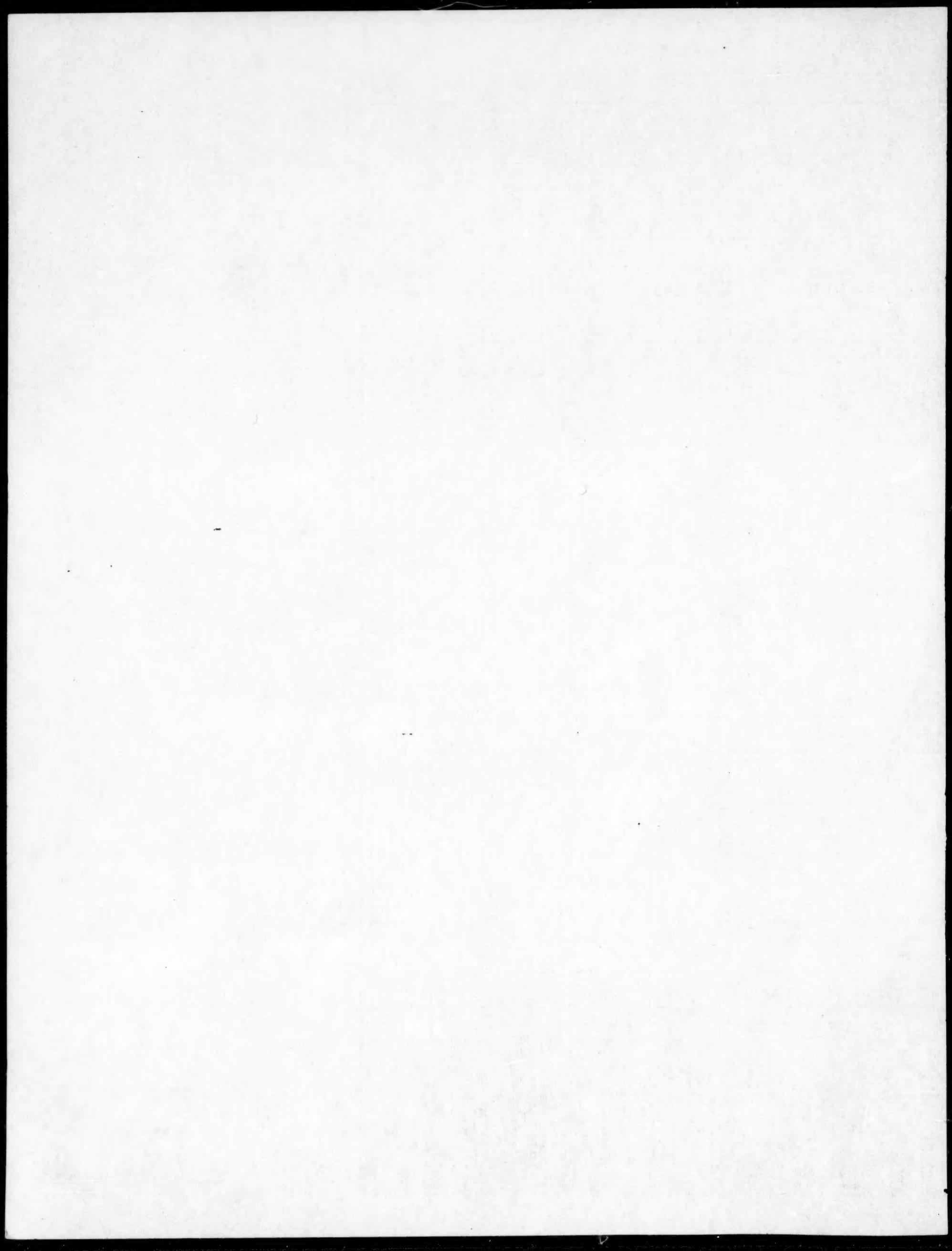
Southwestern Baptist Theological Seminary	3
Springfield College	3
Stanford University	2
State University of Iowa	1
S.U.N.Y. at Albany	1
S.U.N.Y. College at Buffalo	1
S.U.N.Y., College of Ceramics	4
S.U.N.Y., College of Forestry	3
S.U.N.Y., Graduate School of Public Affairs	1
S.U.N.Y., Upstate Medical Center	No information received.
State University of South Dakota	1
Stevens Institute of Technology	3
Syracuse University	1
Temple University	2
The University of Tennessee	3
Texas Christian University	6
Texas Technological College	No degrees granted 1962-1963.
Texas Woman's University	No information received.
University of Toledo	No information received.
University of Toronto	1
Tufts University	3
Tulane University	2
University of Tulsa	1
Union College & University	No information received.
Union Theological Seminary, New York	3
Union Theological Seminary, Virginia	No information received.
U.S. Naval Postgraduate School	2
University of Utah	2
Utah State University	5
Vanderbilt University	4
University of Vermont	1
University of Virginia	2
Medical College of Virginia	3
Virginia Polytechnic Institute	1
Wake Forest College	No degrees granted 1962-1963.
Washington State University	2
Washington University	2
University of Washington	1
Wayne State University	1
West Virginia University	No information received.
Western Reserve University	1
Westminster Theological Seminary	No information received.
University of Wichita	6
The University of Wisconsin	10
Woman's Medical College of Pennsylvania	No degrees granted 1962-1963.
Woodstock College	No information received.
Worcester Polytechnic Institute	1
University of Wyoming	3
Yale University	4
Yeshiva University	No information received.
Total	64 88 56 111 88 31 53 79 34 124 94 17 262 20 194 42 328 76 250 117 426 10 45 293 171 127 218 88 13 41 501 477 35 58 8 99 337 26 135 217 62 69 19 263 125 365 18 17 2 160 83 115 8 31 21 20 41

TABLE III
DISTRIBUTION OF
DOCTORATES FOR THE
YEAR 1932-1963
(Continued)

Duke University (including School of Forestry)	1	1	9	1	3	5	4	3	3	1	2	1	2	12	1	6	2	1	7	109
Duquesne University				1	1	2	2			1	4				2	1	2	4	1	3
Emory University				1	4	2	2			2	1	1			2	1	4	1	1	37
Fletcher Sch. of Law & Dipl.				1	1	6	4	1	2	3					2	3	3	1	1	9
The University of Florida	1	1	3	8	1	3				7	2				2	3	3	1	1	98
The Florida State University	1	1	3	8	1	3				7	2				2	3	2	1	3	82
Forham University															3	6	4	2	1	80
The General Theological Seminary																			0	0
George Peabody Coll. for Teach.															1	2	1		44	
The George Washington University															1	2	2		29	
Georgetown University															1	6	2		32	
University of Georgia	2	1	4	2	1	4				1	1				1	1		6	41	
Georgia Institute of Technology																		0	31	
Georgia State College																		2	2	
Grace Theological Seminary and Grace College															2			2	2	
Hahnemann Med. Coll. and Hospital																			1	6
The Hartford Seminary Foundation																			5	5
Harvard University	15	1	1	5	1	5	5	1	2	30	22	5	4	18	5	34	2	12	37	1
University of Hawaii																			1	5
Hebrew Union College—Jewish Inst. of Religion, Cincinnati																			0	0
Hebrew Union College—Los Angeles																			1	1
Hebrew Union College—Jewish Inst. of Religion, New York																			0	0
University of Houston																			3	7
Howard University																			1	6
University of Idaho																			5	5
The Iliff School of Theology																			0	0
Univ. of Illinois (including Univ. of Illinois at the Medical Center)	5	3	20	1	1	1	5	1	11	2	17	1	14	1	10	1	2	2	11	13
Illinois Institute of Technology	1	9	3				2	1	3	11	9	6	8	13	2	2	5	3	3	5
Indiana University																		4	9	
The Institute of Paper Chemistry affiliated with Lawrence College																		13	13	
Institutum Divi Thomae																		4	4	
Iowa State University of Science and Technology	1						2		3									7	174	
Jefferson Medical College of Philadelphia																		0	0	
The College of Jewish Studies																		0	0	
Jewish Theol. Sem. of America																		103	103	
The Johns Hopkins University	6	3					2		2	1	3	2	10	1	2	1	2	2	4	93
University of Kansas	1	8					1		1	4	3	1	1	4	2	1	2	1	4	40
University of Kansas City																		0	0	
Kansas State University	3						2				1		1		3			28	28	
Kent State University																			17	
University of Kentucky																			2	
Université Laval																		3	3	
Lawrence College (see Institute of Paper Chemistry)																		1	24	
Lehigh University	2						1											0	0	
Loma Linda University	2	6									1	2	1	6				2	8	104
Louisiana State University																		1	13	
University of Louisville																		1	1	
Lowell Technological Institute																		26	26	
Lyonia University, Chicago																				
Lutheran School of Theology at Chicago																				
University of Maine																		3	2	
Marquette University																		3	110	
University of Maryland	1																	26	26	
University of Massachusetts	4																	0	0	
Mass. Coll. of Pharmacy																		284		
Mess. Inst. of Technology	3	177					1	4			1	4	4	4	1	1	2	1	1	
McGill University	3	4					1	4			3	1	5	3	7	24	2	18	13	
University of Miami	1						3	1			1	2	3	1	1	21	1	8	371	
The University of Michigan	3	2					2	1			2	1	3	1	2	4	3	14	7	
Michigan State University	2	1	1				2	1			3	2	1	1	1	10	12	4	15	
Middlebury College															1	1	1	4	217	
University of Minnesota															5	1	1	1	1	
The University of Mississippi															16	5	1	1	1	
Mississippi State University															1	1	1	1	1	
Montana State University	3	2	5	1	4	4	1	7	1	2	5	1	10	16	5	1	1	6	314	
University of Nebraska (including Teachers College)	1	1	2				1	7	1	2	5	1	1	1	1	1	1	1	9	
New Israel Rabbinical College																		2	91	
University of Nevada																		0	0	
Newark College of Engineering																		2	2	
University of New Brunswick																		5	13	
University of New Mexico															1	3	2	2	27	

TABLE III
DISTRIBUTION OF
DOCTORATES FOR THE
YEAR 1962-1963
(Continued)

	Total
New Mexico Highlands University	0
New Mexico Institute of Mining and Technology	1
New Mexico State University	10
New Orleans Baptist Theological Seminary	0
New School for Social Research	15
New York Law School	0
New York Medical College	0
New York University	1
North Carolina State of the Univ. of North Carolina at Chapel Hill	1
North Carolina College at Durham	1
North Carolina State of the Univ. of North Carolina at Raleigh	4
University of North Dakota	1
North Dakota State University	2
North Texas State University	1
Northeastern University	1
Northwestern University	1
University of Notre Dame	1
Occidental College	1
Ohio University	7
The Ohio State University	7
University of Oklahoma	7
Oklahoma State University	2
University of Oregon	1
Oregon State University	2
Pacific School of Religion	1
Univ. of Pennsylvania (including Schools of Edu. & Social Work)	1
Pennsylvania State University	1
Phila. Coll. of Pharm. & Sci.	3
University of Pittsburgh	2
Pittsburgh Theological Seminary	2
Polytechnic Institute of Brooklyn	1
University of Portland	1
Princeton Theological Seminary	1
Princeton University	14
Purdue University	4
University of Redlands	1
Rensselaer Polytechnic Institute	1
University of Rhode Island	7
Rice University	2
The University of Rochester	1
The Rockefeller Institute	1
Rutgers - The State University	1
St. Bonaventure University	5
St. John's University	1
St. Louis University	1
St. Mary's Seminary and University	1
St. Francis de Sales Seminary	2
University of South Carolina	1
Medical College of South Carolina	1
South Dakota State College	5
Southern Baptist Theol. Sem.	3
Southern University of Southern California	2
Southern California School of Theology	3
Syracuse University	2
Tulane University	2
University of Vermont	1
Washington State University	2
West Virginia University	1
Yale University	1
Zoology	1
Sociology, Race Question	2
Sociology, Socialism, Communism & Anarchism	2
Sociology, Public Welfare	1
Sociology, Family	1
Sociology, General	2
Social Work	1
Social Psychology	1
Religion	1
Psychology, Experimental	1
Psychology, General	1
Political Science, General	1
Political Science, International Law & Relations	1
Physics, Solid State	1
Physics, Nuclear	1
Physics, Metallurgy	1
Physics, Electrical	1
Physics, Electronics and Electricity	1
Mathematics	2
Mineralogy	1
Microbiology	1
Geonography	1
Pharmacology	1
Philosophy	1
Physics, Solid State	1
Physics, General	1
Psychology	1
Psychology, Clinical	1
Psychology, General	1
Political Science, Public Administration	1
Linguage and Literature, Modern	1
Linguage and Literature, Classical	1
Linguage and Literature, Medieval	1
Literature	1
Journalism	1
Library Science	1
Law	1
History, Medieval	1
History, Ancient	1
History, General	1
Health Sciences, Surgery	1
Health Sciences, Pathology	1
Health Sciences, Nutrition	1
Health Sciences, Nursing	1
Health Sciences, Hygiene	1
Health Sciences, General	1
Geophysics	1
Geography	1
Food Technology	1
Petroleum	1
New Mexico Highlands University	0
New Mexico Institute of Mining and Technology	1
New Mexico State University	10
New Orleans Baptist Theological Seminary	0
New School for Social Research	15
New York Law School	0
New York Medical College	0
New York University	15
North Carolina State of the Univ. of North Carolina at Chapel Hill	1
North Carolina College at Durham	1
North Carolina State of the Univ. of North Carolina at Raleigh	1
University of North Dakota	1
North Dakota State University	2
North Texas State University	1
Northeastern University	1
Northwestern University	1
University of Notre Dame	1
Occidental College	1
Ohio University	7
The Ohio State University	7
University of Oklahoma	7
Oklahoma State University	2
University of Oregon	1
Oregon State University	2
Pacific School of Religion	1
Univ. of Pennsylvania (including Schools of Edu. & Social Work)	1
Pennsylvania State University	1
Phila. Coll. of Pharm. & Sci.	3
University of Pittsburgh	2
Pittsburgh Theological Seminary	2
Polytechnic Institute of Brooklyn	1
University of Portland	1
Princeton Theological Seminary	1
Princeton University	9
Purdue University	1
University of Redlands	1
Rensselaer Polytechnic Institute	2
University of Rhode Island	1
Rice University	2
The University of Rochester	1
The Rockefeller Institute	1
Rutgers - The State University	1
St. Bonaventure University	4
St. John's University	1
St. Louis University	1
St. Mary's Seminary and University	1
St. Francis de Sales Seminary	2
University of South Carolina	1
Smith College	1
University of Southern California	1
Medical College of South Carolina	1
South Dakota State College	5
Southern Baptist Theol. Sem.	3
Southern University of Southern California	2
Southern California School of Theology	5
Syracuse University	2
West Virginia University	2
Yale University	1
Zoology	1



Doctoral Dissertations, 1962-1963

AGRICULTURE

General

Agricultural and Mechanical College of Texas

BURRUS, James A. The evaluation of fats and oils in chick diets.

STROTHER, Allen. Calcium and phosphorus requirements of the young growing chick.

WALDRIP, William J. Utilization of side-oats grama (*Bouteloua curtipendula* (Michx.) Torr.) and its value as an indicator of grazing intensity in the rolling plains of Texas.

Auburn University

GIBBS, James Allen. Genesis of *fragipans in tilsit* and associated hartsells soils in Alabama.

University of California, Davis

ANGUS, David Edgar. The influence of meteorological and soil factors on the rate of evapotranspiration of a crop.

Georgetown University

GONDOKOESOEMO, Abdul Aziz. Soviet agriculture under Khrushchev.

University of Georgia

MOUGHARBEL, Said K. Improving agriculture in Syria through a program of extension education.

SMITH, Yates Curtis. Water movement on Orangeburg sandy loam.

University of Illinois

ADAMS, JR., Russell Stanley. Ammonium sorption and release by soil-forming rocks and minerals.

ZOGG, Carl Arthur. The influence of milk fat depressing rations on the yield and composition of bovine milk.

Iowa State University
of Science and Technology

ABRAMS, Raul. Variation in quantitative characters of oats (*Avena sativa*) after different mutagen treatments.

ANDERSON, Carl Andrew. Quantitative chromatographic separation of total organic phosphorus from soil extracts.

ARNOLD, Richard Warren. Silans in some brunzem soils.

COLLINS, William Kerr. Ear shoot development and performance of two-ear types of Corn Belt maize.

GREEN, Richard Ervin. Infiltration of water into soils as influenced by antecedent moisture.

RUNGE, Edward Christ Arthur. Influence of natural drainage on iron and phosphorus distribution in some Iowa soils.

REED, Marion Guy. Kinetics of potassium release from biotite in solutions containing sodium tetraphenylboron.

SCHMIDT, Berlie Louis. Relative erodibility of three loess-derived soils in southwestern Iowa.

SEKHON, Gurcharan Singh. Soil organic phosphorus and the phosphorus nutrition of plants.

VOSS, Regis Dale. Yield and foliar composition of corn as affected by fertilizer rates and environmental factors.

YAO, Augustine Yi Ming. The effect of plant population and planting pattern of corn on radiation interception and water use.

Kansas State University

McMURPHY, Wilfred. Burning Flint Hills grassland: effects on range condition forage production, and soil moisture.

NADDIH, Badi Ibrahim. I. The influence of adsorbed cations on the dielectric constants of vermiculite and bentonite. II. Infrared spectroscopy investigation of phosphorus interaction with minerals.

University of Massachusetts

CRAWFORD, Roy Douglas. Studies of the relationship between fertility and the gene for rose comb in the domestic fowl.

WENTWORTH, Bernard Charles. The effect of spermatozoal antibodies on the fecundity of domestic fowl and Japanese quail.

McGill University

JEFFERS, Hugh Frederick MacKenzie. The nutritive evaluation of a mixed pasture.

Michigan State University

MILLER, Gerald Ray. An evaluation of competition between weeds and sugar beets (*Beta vulgaris* L.).

University of Minnesota

ABDEL-RAHMAN, Hashim Aly. A study on the ecology of the Indian meal moth, *Plodia interpunctella* hb., with emphasis on its relation to stored grain fungi.

BOELTER, Don Howard. A study of some physical properties of several peat materials and their relation to field water conditions in the peat bog.

MEADE, Alston Bancroft. The origin and development of populations of the six-spotted leafhopper, *Macrostelus fascifrons* (stal.), on an area basis.

WARNER, Lloyd Claude. Factors affecting the fate and phytotoxicity of 3-amino-2,5-dichlorobenzoic acid (amiben).

Mississippi State University

CALDWELL, William Porter. Relationship of pre-harvest environmental factors to seed deterioration in cotton.

University of Missouri

HARGUS, William Anthony. Ovine bioenergetics and nutritional efficiency with special reference to forage utilization.

HICKS, Raymond Donald. Cotton defoliation in Missouri as affected by temperature, variety, and chemical defoliant.

North Carolina State of the University of North Carolina at Raleigh

HILTON, Horace Gill. Some interrelationships of clay mineralogy, soil strength, and plant root growth.

The Ohio State University

CHAHAL, Kulwant Singh. Decomposition products of carbon-14 labelled rye tissue in a peat profile.

CHOE, Hyung Tae. Growth, yield, and anatomical structure of the union resulting from budding apple varieties on intermediate stocks.

KALANGI, Christopher Jayadas. An analysis of training needs of extension agents in urban and farm counties.

LAKSHMANAN, Cocherapanicker. Chemical and morphological characteristics of soils as influenced by several tree species.

Purdue University

CHUNG, Ronald Aloysius. The effect of different dietary fats and cholesterol on the chemical composition of the egg and tissues of the hen.

EVANS, Samuel Davidson. The effect of cation exchange capacity, clay content and fixation on diffusion and uptake of rubidium-86.

GUPTA, Rajinder Pal. Hydraulic conductivity of porous media as affected by gases.

HARDIN, Robert Toombs. Two way selection for body weight in *Tribolium castaneum* on two levels of nutrition.

LAFFEVER, Howard Nelson. Cytological, environmental, chromosome association, and heterosis studies involving an aneuploid line of *Avena sativa*.

PATTEE, Harold Edward. Nitrogen and potassium as variables influencing soluble nitrogen and organic acid accumulation in soybean (*Glycine max*).

PLACE, Gerald Alan. The effect of soil moisture on diffusion and root physiology and their relation to potassium and Rb⁸⁶ uptake.

Rutgers – the State University

CHALUPA, William Victor. Nitrogen utilization and microbial activity.

DEAL, Elwyn Ernest. Regulation growth of merion Kentucky bluegrass (*Poa pratensis* L.) turf with cultural and management techniques.

MITTERLING, Lloyd Alfred. The vegetative response to various photoperiods of *Malus pumila*, an apomictic crab apple species.

RIMM, Alfred Aron. Some effects of heredity and environment on appetite in dairy animals.

STILLIONS, Merle C. Effect of hormones and minerals on cellulose digestion and rumen microbial growth.

SULLIVAN, John J. A. Factors influencing quality of frozen bull semen; B. Factors influencing uptake of radioactive triiodothyronine by bull spermatozoa.

DOCTORAL DISSERTATIONS 1962-1963

WELLS, Phillip Richard. Changes related to casein precipitation in concentrated milk during frozen storage.

University of Saskatchewan

GHOSH, Abhijit Narayan. Cytogenetic investigations of a chlorophyll mutant in smooth brome-grass *Bromus inermis* Leyss.

SHARMA, Devendra. The transfer of leaf rust resistance from *Agropyron elongatum* (Host.) Beauv., to common wheat, by irradiation.

University of Toronto

CAWLEY, Allan Joseph. The blood supply of the bones of the pelvic limb research will cover the femur, with particular reference to the femoral head and neck, tibia and fibula, tarsal bones, metatarsale and the phalanges.

Utah State University

KOHL, Robert Alvin. On the enthalpy and entropy of soil water.

REUSS, John Otto. Nitrite reactions in soil.

The University of Wisconsin

AL-MULLA HUMMADI, Mustafa K. Abdulerahman. Biology of *Hippelates* eye gnats (Diptera: Chloropidae) in Wisconsin.

FOSBERG, Maynard Axel. Genesis of some soils associated with low and big sagebrush complexes in the brown, chestnut, and chernozem-prairie zones in southcentral and southwestern Idaho.

KUNISHI, Harry Mikio. Factors affecting the release of soil potassium to exchangeable form on drying.

MILFORD, Murray Hudson. Mineralogical analyses of some soils from the north central United States in relation to potassium availability.

SAARI, Albert Leo. Lipoproteins in egg yolk.

VALENCIA, Iluminado Gana. The effect of flooding on the availability of phosphorus and on the growth of rice.

Animal Culture

Agricultural and Mechanical College of Texas

ELLIS, JR., George Forbes. A biometrical evaluation of heterosis in beef cattle.

QURESHI, Abdul Wahab. Genetic trends in milk and butterfat production of Texas dairy herd improvement association cows.

University of Alberta

LI, Ming-fang. *In vitro* studies on the effects of valeric acid on the growth and metabolism of rumen microorganisms.

MacKAY, Vernon Garnet. Effects of inorganic salts on rumen volatile fatty acid production and percent fat in milk.

Auburn University

MILLER, III, William Wadd. Studies of ovarian activity and fertility in ewes and ewe lambs.

University of California, Davis

BARTLEY, John Conner. Glucose metabolism in the dairy cow: effect of glucose load via duodenal and ruminal vein infusion.

BOBR, Lidia Wanda. Oviducal distribution of spermatozoa and fertility of the domestic fowl.

OLANDER, Harvey Johan. A septicemic disease of swine and its causative agent, *Haemophilus parahaemolyticus*.

Cornell University

McFEE, Alfred Frank. Changes in testicular morphology and reproductive capacity of male rabbits following pre-pubertal exposures to gamma irradiation.

PALADINES, Osvaldo Lyonel. Energy utilization by sheep as influenced by physical form, composition and level of intake of diet.

PAVEY, Robert Louis. Some nutritional and physiological effects of feeding pelleted hay to ruminants.

RYAN, Roderick Kennedy. A study of the phenomenon of adaptation by sheep to gradual increases in grain intake as an approach to an understanding of the pathogenesis of grain engorgement in sheep.

SIMMONS, Kenneth Rogers. The nature of the luteotropic hormone in the bovine.

The University of Florida

HUFFMAN, Dale Linwood. Electrophoretic components, pH and calcium, phosphorus and magnesium content of muscle as related to tenderness.

MARTIN, Jack Edward. Influence of dietary magnesium and sulfur upon phosphorus utilization, rumen function and appetite in ruminants.

University of Georgia

MARION, James Edsel. The influence of diet and age on lipid metabolism of chickens.

SHARMA, Narsingh Narain. Response of the fowl (*Gallus domesticus*) to seven species of parenterally administered coccidial organisms.

University of Illinois

JORDAN, Harley Allen. Dietary and thyroid interrelationships affecting vitamin A status of feedlot beef cattle.

KING, Thomas Blose. Rumeno-reticular losses of vitamin A and carotene.

ROBINSON, Loren Keith. Effects of changes in body weight during lactation on the milk and milk fat production of purebred and crossbred cows.

Iowa State University of Science and Technology

CHRISTIANSEN, William Cleve. Nutrient and other environmental influences upon rumen protozoal growth and metabolism.

NICHOLS, Elmer Loren. Effect of cholesterol and fat source on serum cholesterol and blood pressure levels in the growing chick.

RUST, Joseph William. Effects of supplemental dietary enzymes on utilization of nutrients by calves.

SIMS, John Albert. Characteristics of milking flow among dairy cows.

SMITH, Keith James. Relationship of ruminal calcium, magnesium, ammonia and total salts to the occurrence of bloat in lambs.

URBAN, JR., Willard Edward. Genetic and environmental aspects of litter size in swine.

Kansas State University

NORWOOD, James Spencer. Factors affecting post-partum regression of the bovine uterus.

University of Kentucky

FIELD, Ray Arvid. Carcass evaluation of lambs from selected crosses.

GARRIGUS, Robert R. Effects of physical form of soybean hulls on the production of volatile fatty acids and on steer performance.

GREATHOUSE, Terry Ray. Preweaning and post-weaning in performance and carcass characteristics of Hereford and Hereford X red poll cross-bred calves.

HUBER, Thomas Lee. Relation of extracellular acid-base parameters to the pathogenesis of acute ovine indigestion.

SKELLEY, JR., George C. Quick aging of hams and colorimetric rancidity measurements.

Louisiana State University

ACHACOSO, Antonio Solis. Nutritional evaluation of permanent pastures with dairy cattle in Louisiana.

CLARK, Glenn Edward. Endogenous histamine and meat tenderness.

HAMM, Douglas. The influence of diet on urinary excretion and ovarian deposition of fatty acids by the domestic fowl.

KEENE, James Howard. Utilization of amino acids as affected by energy level.

LOVELL, Richard Thomas. Effects of feeding lactating cows a complete vitamin-mineral supplement with high-grain and high-roughage rations.

MINER, James Joshua. Biological evaluation of soybean meal and cottonseed meal by amino acid digestibility and protein efficiency ratio studies.

ORDOVEZA, Antonio Lino. Nutritional evaluation of pastures for dairy cattle in Louisiana using *in vitro* methods.

RANDEL, Paul Folling. The effect of simulated Louisiana summer conditions on newborn dairy calves I. growth, feed intake, digestibility, plasma proteins, and certain blood constituents.

ROUSSEL, Joseph Donald. Effect of light, temperature, and humidity on physiological response of dairy bulls.

University of Maryland

HEAD, Henry Herbert. The determination of glucose utilization in the bovine using isotope dilution techniques.

KEENE, Owen David. Magnesium requirements of chicks and poult.

PANDA, Bhagabat. Role of certain vitamins in resistance-capability of growing chickens exposed to coccidiosis and pullorum antigen.

Michigan State University

EVERETT, JR., James P. Some factors affecting intake of alfalfa silage by dairy heifers.

HARMON, Bud Gene. The relationship of specific nutrient deficiencies to antibody response in swine I. Vitamin A. II. Pantothenic acid, pyridoxine or riboflavin.

KIRTON, Alan Henry. The potassium, sodium and cesium content of animals and the relationship to composition.

LAMB, Robert Cardon. Usefulness of part records in estimating the breeding values of dairy cattle.

OSTMANN, Orville William. Fundamental anatomical and physiological studies on the feather release mechanism in the domestic fowl.

University of Minnesota

AHLUWALIA, Balwant Singh. Some biochemical aspects of fowl semen.

AGRICULTURE

DETTMERS, Almut E. Selection for small size in swine.

PROUTY, Richard Metcalf. A study of the effects of selenium and vitamin E upon the lipid metabolism of the growing pig.

TAHA, Ahmad Al-Haj. The effect of roughage-concentrate ratios and level and source of nitrogen on nutrient digestibility and nitrogen retention by sheep.

TYAGI, Raj Pal Singh. Effects of pentothal sodium anesthesia on the horse.

WILK, John Clark. Genetic and phenotypic relationships between certain body measurements and milk production in dairy cattle.

University of Missouri

CUNNINGHAM, Merle Dean. The effect of drinking water temperature on intraruminal temperature and ruminant digestion.

North Carolina State of the University of North Carolina at Raleigh

SLYTHER, Leonard Leroy. Sodium and potassium of the rumen as related to volatile fatty acid metabolism.

The Ohio State University

BRUM, Eldon Wesley. Some effects of low levels of inbreeding resulting from a specific line development mating system on growth and production characteristics in dairy cattle.

NELSON, Eldon Carl. The biological activity of vitamin A acid in the pig.

RAHMAN, Syed Abdul. Studies on culturing rumen protozoa (*Entodinia*) *in vitro*.

RAUSCH, Wayne Henry. The inheritance of bovine transferrin types as determined by disc electrophoresis; their use in the determination of animal relationships, and the association of these types with fertility and production.

Oklahoma State University

ENG, JR., Kenneth Stuart. Techniques for sampling and measuring intake and digestibility of grazed forage.

HENDRICKSON, Robert Francis. Some effects of different planes of nutrition on carcass characteristics of fattening steer calves and relationships among various live animal and carcass measurements.

Oregon State University

JESSUP, Gordon Lee. Non-protein nitrogenous constituents of the blood in relation to rumen development and growth in suckling lambs.

SNYDER, Fred Roland. Evaluation of nutritional qualities of common ryegrass screenings.

WAGELIE, Edwin Gan. Certain physiological and pharmacological effects of radiation on rabbits.

The Pennsylvania State University

ARCELAY, Carlos Luis. The effect of variations in the energy and protein levels of the ration upon performance in the pig.

FLEEGER, James Lee. The metabolism of malonic-C¹⁴ acid by bovine spermatozoa.

HAWES, Robert Oscar. Fertility in the female fowl as influenced by oxytocin, adrenalin and age of ova.

HOLTER, James Burgess. Butyrate metabolism in the isolated, perfused liver of the goat.

PHILLIPS, JR., Paul Jackman. The effect of type of pasture, implantation of diethylstilbestrol,

and concentrate feeding upon the gains and carcass traits of beef slaughter cattle.

SAACKE, Richard George. An electron microscope study of normal bovine spermatozoa and factors affecting structural integrity.

Purdue University

BURNS, Raymond L. Influence of inbreeding on growth and body dimensions of beef cattle.

HINSMAN, Edward James. An electron microscopic study of canine cardiac tissue.

MADDEN, David Larry. Avian mycoplasmas.

SIMMS, Richard Henry. Effects of diethylstilbestrol on growth rate, carcass quality and gonad development of lambs.

Washington State University

CLARK, John David. Some physiological and nutritional effects of cortisone for ruminants.

WALTER, Elmer Donald John. Nutritional interrelationships between vitamin E, selenium, and related factors in the domestic fowl.

The University of Wisconsin

ANDREWS, Daniel Keller. Acceptance and effectiveness of arsenicals and antibiotics for use in laying rations.

CHRISTIAN, Lauren LaRoy. Analysis of growth and production traits in twin and non-twin beef cattle data.

COOK, Charles Francis. Variation in certain physical and chemical components of bovine tissue, and methods for identification and measurement of these parameters.

DUCKWALL, James Ward. Variations in heritability and repeatability of milk, fat and percentage of fat yield in stratified Holstein-Friesian herds.

KUNS, Merle Lee. The epizootiology of vesicular stomatitis in middle America.

MEYER, James Anthony. Part I: Glucose tolerance in swine as related to post-mortem muscle characteristics. Part II: The relationship of niacin and niacin coenzymes with various post-mortem properties of porcine muscle.

MI, Ming Pi. Effects of mating system on body growth and production in Holstein cattle.

STEINKE, Frederick Herman. An unidentified growth factor for chicks.

THOMPSON, Wayne Howard. Mastitis control in demonstration herds.

WICKERSHAM, Edward W. Physiological factors influencing growth, reproduction and production of well-fed dairy heifers I. Age of first breeding II. Feeding of diethylstilbestrol.

Forestry and Wildlife

Agricultural and Mechanical College of Texas

CARTER, Dilford Campbell. The systematic status of the bat *Tadarida brasiliensis* (L. Geoffroy) and its related mainland forms.

PORTER, Richard Dee. Movements, populations and habitat preferences of three species of Pocket Mice (*Perognathus*) in the Big Bend region of Texas.

University of Arizona

SCHMUTZ, Ervin Marcell. Factors affecting the absorption, translocation and toxicity of herbicides on creosotebush.

University of California, Berkeley

PARKS, George Merriman. Analytical models for attack and control of wildland fires.

Colorado State University

GOODELL, Bertram C. Development and application of an inexpensive totalizer of solar and thermal radiation.

HOFFER, Roger Milton. Regime of incoming and net radiation in relation to certain parameters of density in lodgepole pine stands.

Cornell University

HIBBEN, Craig Rittenhouse. Investigations of sugar maple decline in New York woodlands.

PETERS, Stuart Sanford. Population dynamics of the Newfoundland willow ptarmigan on the Avalon Peninsula.

Duke University

BAIRD, Charles O'Connor. Wood production investment opportunities on the Cumberland Plateau in Tennessee: a regional economic analysis.

BARRETT, James Passmore. Relation of relative oleoresin yielding potential to geographic seed sources of slash pine.

BROWN, Gregory Neil. Studies on nucleic acid production in growing zones of germinating mimosa seedlings.

MERRIFIELD, Robert Glenn. The effects of fertilization on growth and nutrient concentration in young loblolly pine.

ROBERTS, Bruce Roger. Effects of water stress on the translocation of photosynthetically assimilated carbon-14 in yellow-poplar.

University of Illinois

JOKELA, Jalmer John. Heritable variation in natural populations of *Populus deltoides* Bartr. in Illinois.

McGill University

STAIRS, Gordon R. Virus infection in lepidoptera with special reference to a nuclear polyhedrosis of *Galleria mellonella* L.

The University of Michigan

BOOKHOUT, Theodore Arnold. The snowshoe hare in Upper Michigan: its biology and feeding co-actions with white-tailed deer.

BRYAN, Eugene Lee. High energy liquid jets as a new concept for wood machining.

GILBERT, Douglas L. Public relations and communications in wildlife management.

HAGENSTEIN, Perry Reginald. The location decision for primary wood-using industries in the northern Appalachians.

HAMILTON, Lawrence Stanley. An analysis of New York State's Forest Practice Act.

HARTESVELDT, Richard John. The effects of human impact upon *Sequoia gigantea* and its environment in the Mariposa Grove, Yosemite National Park, California.

HUBBARD, Fred Harvey. Planning and control of recreation use on public inland lakes.

MARTIN, Robert Edward. Thermal and other properties of bark and their relation to fire injury of tree stems.

MCNEIL, Richard Jerome. Population dynamics and economic impact of deer in southern Michigan.

DOCTORAL DISSERTATIONS 1962-1963

- REID, Leslie Merle. Outdoor recreation preferences. A nationwide study of user desires.
- STRIFFLER, William David. Suspended sediment in the Tobacco River of Lower Michigan: an analysis of contributing factors.
- WILLIAMS, JR., Carroll Burns. The impact of defoliation by the spruce budworm on the growth, specific gravity and competitive abilities of three tree species in northeastern Oregon.

Michigan State University

- FREEMAN, Fred Wesley. Factors affecting the differential tolerance of tree species to herbicides, primarily simazine.
- SCHNEIDER, Gerhardt. A twenty year ecological investigation in a relatively undisturbed sugar maple-beech stand in southern Michigan.
- SHAIN, William A. A survey of continuous forest inventory in the United States and Canada.
- WELLS, Osborn Oliver. Geographic variation in ponderosa pine (*Pinus ponderosa* Dougl. ex Laws.).
- WOOD, Jack Sheehan. Reproductive development and factors affecting reproduction in semi-domesticated Canada geese.

University of Minnesota

- BROCK, Samuel Mitchell. Factors influencing the use of Maine softwood lumber in the building construction industry of the northeastern United States.
- KELSO, JR., William Cheatom. The effect of air blockage upon the permeability of wood to liquids.
- SCHOENIKE, Roland Ernst. Natural variation in jack pine (*Pinus banksiana* Lambert).

North Carolina State of the University of North Carolina at Raleigh

- GOGGANS, James Floyd. The correlation, variation, and inheritance of wood properties in loblolly pine (*Pinus taeda* L.).

The Ohio State University

- HANSELMAN, David Lee. Interdepartmental teaching of conservation at The Ohio State University.

Oregon State University

- DEWITT, JR., John William. Effects of pollutional conditions on stream organisms with especial emphasis on stonefly naiads.
- HORTON, Howard Franklin. The factors leading to post-liberation mortalities of trout transported in tank trucks.
- MERRIAM, JR., Lawrence Campbell. The Bob Marshall wilderness area of Montana, a study in land use.
- NEFF, Don Johnson. Effects of clipping on the vigor of big game browse plants and related studies in the Arizona Chaparral.

Purdue University

- MECH, Lucyan David. The ecology of the timber wolf (*Canis lupus*) in Isle Royale National Park.

Utah State University

- CURRIE, Pat O'Carroll. Food habits of the black-tailed jackrabbit (*Lepus californicus*) and forage competition between jackrabbits and domestic livestock on native range in northwestern Utah.
- KAUSHIK, Daya Kishan. The influence of salinity on the growth and production of marsh plants.
- MARSTON, Richard B. Some comparative hydro-

logic characteristics of aspen and mountain brush communities on steep mountain watersheds in northern Utah.

MARTIN, Fant W. Breeding territorialism, family organization and population dynamics of the Canada goose on the Ogden Bay Refuge, Utah.

SMITH, Robert Irvin. The social aspects of reproductive behavior in the pintail (*Anas acuta acuta*, L.)

University of Washington

- COLE, Dale Warren. Release of elements from the forest floor and migration through associated soil profiles (a lysimeter study).
- HELM, John Andrew. Seasonal patterns of apparent photosynthesis in *Pseudotsuga Menziesii* (Mirb.) Franco in relation to environment and silvicultural treatment.
- TURNBULL, Kenneth James. Population dynamics in mixed forest stands. A system of mathematical models of mixed stand growth and structure.

The University of Wisconsin

- JONES, Philip Arthur. Forest insect surveys within specified areas.
- NIELSEN, Gerald Alan. Incorporation of organic matter into the A horizon of some Wisconsin soils under native vegetation.

Yale University

- SMITH, JR., Henry Wilds. The establishment of yellow-poplar (*Liriodendron tulipifera* L.) in canopy openings.
- STAIRS, Gerald Ray. Effects of gamma radiation on reproductive structures of *Quercus*.
- STEIN, William Ivo. Comparative juvenile growth of five western conifers.
- WIANT, JR., Harry Vernon. The concentration of carbon dioxide under a mixed forest plantation.

University of California, Berkeley

- PAUL, Jack Leroy. Solid-phase influence upon yield and phosphorus content of barley.

University of California, Davis

- ABDALLA, Abdalla Ahmed. Bulb development in the onion (*Allium cepa* L.) and the effect of storage temperature on bulb rest.
- BOOYSEN, Peter De Villiers. Correlations between reproductive and vegetative growth in the Ladino clover stolon.
- FORDE, Bernard John. Some aspects of phloem translocation in three grass species.
- GEORGE, Leon Yonan. Physiology of salt tolerance of some forage species.
- HACKETT, Wesley Palmer. Inflorescence formation in the olive (*Olea europaea* L.) as influenced by low temperatures, photoperiod, pyrimidines and leaf area.

- HODGES, Thomas Kent. Uptake and movement of chloride in plant roots.

- JORDAN, Gilbert Leroy. The occurrence and some physiological properties of endogenous growth regulators in the straw of *Oryza sativa* L.

- THORUP, Richard Maxwell. Factors affecting phosphate uptake by plants under controlled soil moisture conditions.

- VISTE, Kenneth Lyle. Physiological studies on the responses of *Oryza sativa* L. and *Echinochloa crusgalli* (L) Beauv. to ethyl N,N-di-n-propylthiocarbamate (EPTC).

- WILSON, Alma McDonald. Effect of moisture stress on level of acid-soluble phosphorus compounds in subterranean clover.

Clemson Agricultural College

- GILLINGHAM, John Theodore. The influence of anions on the uptake of calcium and magnesium by plants and on calcium and magnesium movement in soils.

- PLANT, Albert N. A radiographic scanning method for measuring root activities and ion movement in soils, and modifying the soil profile to increase root proliferation.

Colorado State University

- GRABLE, Albert Roy. The effects of carbon dioxide on germination and growth of corn and soybeans in soil containing different levels of oxygen and moisture.

Cornell University

- BEGG, John Elly. Growth and development of vegetative shoots of reed canarygrass (*Phalaris arundinacea* L.)

- BLAKELY, Lawrence Mace. Growth and variation of cultured plant cells.

- HANAN, Joe John. The influence of soil moisture and soil aeration in four root media on the growth and flowering of *Antirrhinum majus* L.

- HEPTON, Anthony. The browning reaction in potato chip production and the role of sulphur dioxide in its control.

- SAMMAN, Yasir Shahir. Effect of methods of phosphate and lime placement on dry matter content and yield of dry bean, *Phaseolus vulgaris*.

- SANDERSON, Kenneth Edwin. Heterokaryosis and parosexuality in the fungus *Ascochyta imperfecta*.

- SMITH, Derek Rodney. The influence of the environment upon initiation and development in *Lilium longiflorum* (Thunb.).

Plant Culture

Agricultural and Mechanical College of Texas

- HEARN, Charles Jackson. Improvement of Klein-grass, *Panicum coloratum* L. Complex, and other agronomic characteristics.

- MERKLE, Owen George. Inheritance of plant height, stem rust resistance, chaff color and the forage production of selected lines of contrasting height in a wheat cross.

- PATRICK, Keith Hilton. The effect of irradiation on sporogenesis, gametophyte development and seed set in yellow-anthered dallisgrass.

- YORK, John Owen. The influence of different environments on the selection of inbred lines of corn.

University of Alabama

- SEGARS, Charles B. Some soils and fertilizer relationships of the Cavendish banana (*Musa Cavendishii* Lambert) on three different soils in Costa Rica.

Auburn University

- TACKETT, Jesse Lee. Aeration requirements of cotton roots for penetration of compacted soil zones.

AGRICULTURE

The University of Florida

ILEY, James Richard. Studies on the effects of zinc ethylenebisdiethiocarbamate (zineb) on citrus seedlings grown in solution cultures and soil and on its degradation by sunlight and soil microbial action.

University of Hawaii

ACOSTA, Juan C. Genetic analysis of bacterial wilt resistance and certain other characters in a tomato cross, *Lycopersicon esculentum* Mill. x *L. pimpinellifolium* Mill.

University of Illinois

BRENIMAN, George William. Factors influencing the nitrate content of forage.

DICKINSON, JR., David Budd. Cellulase and polygalacturonase in tomato fruits and the effect of calcium on fruit cracking.

HORTIK, Harvey Joseph. The relationship of temperature and evaporation measurements to the rate of development of sweet corn (*Zea mays rugosa* L.).

SHANNON, Jack Corum. The effect of 2,4-dichlorophenoxyacetic acid on the growth and ribonuclease content of seedling tissues.

Iowa State University of Science and Technology

BUNKER, Reed Charles. Seedling resistance of corn to leaf feeding of the European corn borer, *Ostrinia nubilalis*.

EIK, Kalju. Some factors affecting leaf development and longevity and the subsequent yield of corn grain.

HORTON, Maurice Lee. Soil compaction and corn growth under controlled moisture conditions.

KLEESE, Roger Allen. Serological predictions of genetic relationships among oat varieties and corn inbreds.

LORIO, JR., Peter Leonce. Tree survival and growth on Iowa coal-spoil materials.

SUTTON, Paul. Relationships among seven elements in the nutrition of corn in sand culture.

Kansas State University

NILSON, Erick Bogseth. Influence of temperature on the level and relationship of DNA and RNA to growth rates of grain sorghum seedlings.

NOSSAMAN, Norman Lynn. Gibberellin and fertilizer interaction on seed germination and plant yield.

SCOTT, Gene Edward. Inheritance and type of gene action of resistance in corn to leaf feeding of the European corn borer.

Louisiana State University

CADIZ, Theodor Garcia. The occurrence and persistence of L-ascorbic acid in the southern pea (*Vigna sinensis*).

CAMPBELL, George M. The effects of photoperiod, temperature and comparative flower inducing techniques on flowering in *Ipomoea batatas*.

LAL BUDHRAJA, Girdhari. Yield of sugarcane in Louisiana as influenced by soil moisture status and climate.

TERESHKOVICH, George. Some factors affecting keeping quality of sweet potato roots.

University of Maryland

BRAMLAGE, William Joseph. The effects of repeated early-season boron sprays on maturity

and storage life of apples, and on carbohydrate changes and enzyme activity in the fruits.

HOGAN, LeMoyn. Nutritional studies on *Pholidoptera cordatum*.

MENSER, JR., Harry A. The effects of ozone and controlled-environment factors on four varieties of tobacco, *Nicotiana tabacum* L.

RAESE, John Thomas. Effects of harvesting at different growth stages and stubble heights on the growth and persistence of four forage grasses under two levels of nitrogen.

STADELBACHER, Glenn Joseph. Flower initiation and fruiting response of the strawberry as related to nitrogen nutrient levels.

TOMPKINS, Daniel Reuben. Factors related to internal browning of tomato fruits (*Lycopersicon esculentum* Mill.).

Michigan State University

KIRKWOOD, James Irvin. Effects of fumigant chemicals on microbial activity and nitrogen transformation and on crop response in organic soil.

University of Minnesota

ERICKSON, Lambert Cornelius. Influences of radiant infrared on germination of weed and crop seeds.

FIKE, JR., William Thomas. Factors affecting forage crop establishment in corn.

NALEWAJA, John Dennis. The effect of ethyl N,N-DI-N-propylthiocarbamate (EPTC) and 1-N-BUTYL-3-(3,4-dichlorophenyl)-1-methylurea (neburon) upon alfalfa yield, weed control, protein content and individual free sugars, and the fate of C¹⁴-labeled EPTC in alfalfa.

WAX, Loyd Monroe. Factors affecting quackgrass control with atrazine.

University of Missouri

BISWAS, Prosanta Kumar. The relationship of gibberellic acid to flower initiation in column stock, *Matthiola incana*.

TALBERT, Ronnie Edward. Studies of the behavior of some triazine herbicides in soils.

The University of Nebraska

KAMBAL, Ali El Khidir. A study on combining ability in grain sorghum.

The Ohio State University

ASCHEMAN, Robert Emmett. The fate of amiben (3-amino-2, 5-dichlorobenzoic acid) in plants and soil.

BHUMBLA, Dev Raj. The role of aluminum in soil acidity.

LOVE, Joseph William. An investigation of flower bud initiation of greenhouse chrysanthemums as affected by several photoperiods at two light intensities.

MILLER, Robert Warren. The effect of mechanical and chemical seed treatment as plant and seed characteristics of spring oats, *Avena sativa*.

THOMPSON, James Marion. Husk extension of field corn in breeding for resistance to bird damage.

Oklahoma State University

FU, Wei-Ning. Chromosomal aberrations and variations in chromosome number in *Sorghum vulgare* treated with X-rays and thermal neutrons.

Oregon State University

SINHA, Surendra Prasad. Evaluation of methods for predicting yield in early generations of winter wheat crosses.

SWEARINGIN, Marvin Laverne. The effects of ryegrass competition and different nitrogen levels on the growth and yields of semi-dwarf wheat varieties.

The Pennsylvania State University

BLAKE, Carl Thomas. The influence of some environmental and management factors on the persistence of Ladino clover.

BREWER, JR., James Edward. The interrelation of nutrient supply, leaf nutrient content and vegetative growth of *Ilex crenata*, 'Green Island'.

CARLSON, Gerald Eugene. Formation of adventitious stem sites on creeping-rooted alfalfa, *Medicago media* pers., as affected by temperature, photoperiod, and gibberellic acid.

LANPHEAR, Frederick Orville. Influence of endogenous rooting cofactors and environment on the seasonal fluctuation in root initiation of selected evergreen cuttings.

McCLELLAN, Willis Lee. Establishment and productivity of birdsfoot trefoil as influenced by several management practices.

Purdue University

ALLRED, Shelton Eugene. The effect of ammonia, mono- and diammonium phosphate on the germination and emergence of corn.

BARNES, Robert F. The *in vitro* and *in vivo* evaluation of selected reed canarygrass clones differing in palatability.

CHATTERJEE, Salil Kumar. Regulatory systems controlling leaf abscission.

CRUZ-PEREZ, Luis M. Sugar translocation in peppermint (*Mentha piperita* L.).

DUCLOS, Zachary Mark. Performance of inbred lines in hybrid combination during the transfer of a single gene locus in maize.

EASTIN, John Alvin. A study of changes in protein and growth regulators during vernalization in embryo seedlings of *Triticum vulgare*.

LAVY, Terry Lee. Movements of molybdenum in the soil and its effect on availability to the plant.

MOORE, Raymond Arthur. Relationships among plant development, carbon dioxide exchange and net assimilation in alfalfa.

ROBERTSON, James Alexander. Investigation of the influence of glass capillaries, immersed in toxic solutions, on root growth.

SMALL, JR., Howard Gordon. Cobalt and cation-organic acid relationships in soybean plants.

WERNSMAN, Earl Allen. Meiotic behavior of *Lotus* species.

Rutgers - the State University

FELDSTEIN, Joshua. Irrigation studies with the peach in Pennsylvania.

University of Saskatchewan

AYYAD, Mohamed A. G. An analysis of the vegetation-microenvironmental complex on prairie slopes in Saskatchewan.

HULETT, Gary K. Species distributional patterns in dune sand areas in the grasslands of Saskatchewan.

MISRA, Kailash Chandra. Geography, morphology and environmental relationships of certain stipa species in the northern Great Plains.

DOCTORAL DISSERTATIONS 1962-1963

South Dakota State College

- ERICHSEN, Alvin Wayne. Genetic and cytogenetic aspects of colchicine-induced male sterility in sorghum.
- PAPENDICK, Robert I. Oxygen diffusion in homogeneous soil.
- TAMIMI, Sadi A. Inheritance of reaction of a diallel set of diploid alfalfa clones to two pathogens of the blackstem complex.
- WIDSTROM, Neil Wayne. An approach to selection for relative water-use efficiency through its relationship to other plant characters in eight oat varieties.

Utah State University

- DENNEY, Alice. A study of the relationship of graft compatibility and certain chemical constituents between several *Prunus* species and sweet cherry, *Prunus avium*.
- HOUSTON, Walter Randolph. Effects of grazing intensities on range vegetation and beef cattle production in the northern Great Plains.
- KHATIKARN, Bunjird. A study of the effects of some growth-regulating substances of fruit-setting in tomatoes.
- PATIL, Siddangouda Venkangouda. The effect of urea, ammonium sulfate and organic materials on nitrate accumulation and gaseous loss of nitrogen in acid soil.

Washington State University

- KERR, Harold Delbert. A study of the establishment and control of *Alhagi camelorum* Fisch.
- POWELL, Jerrel Buel. Factors affecting recombination in barley.

The University of Wisconsin

- CHAMBERS, Everett Eugene. Studies of the interrelationships of plant roots.
- DOERSCH, Ronald Ernest. Relationships between rates of fertilizer application soil fertility levels ear corn yields and nutrient uptake.
- KITTAMS, Harry Arthur. Use of sulfur for increasing the availability of phosphorus in rock phosphate.
- LAYNE, Richard Evelyn Claude. I. Effect of vacuum-drying, freeze-drying, and storage environment on the viability of pea pollen. II. Effect of boron, sucrose, and agar on the germination of pea pollen.
- REYNOLDS, John Horace. Morphological development and trends of carbohydrate reserves in alfalfa, smooth bromegrass, and timothy under various cutting schedules.
- ROWE, Paul Roger. Phenotypic stability for certain characters in a systematic series of maize genotypes grown in different environments.
- SCHIRMAN, Roland Delbert. Physiological responses of quackgrass to atrazine.
- SMITH, Don Wiley. Modification of plant transpiration rate with chemicals.
- WAUGH, Donovan Lloyd. A critical study of radio-phosphorus injection methods for estimating plant uptake of nutrients from subsoils.
- WESENBERG, Bernard Gustave. Influence of production environment on the longevity of flowers on potted chrysanthemums (*Chrysanthemum morifolium* Ramat.)

University of Wyoming

- MITICH, Lawrence W. The effect of light quality and toxicity of 2,4-D upon pectic compounds in six selections of Canada thistle (*Cirsium arvense* L.).

TIMMONS, F. Leonard. The effects of certain chemical and burning treatments on carbohydrate reserves in the rhizomes and roots of *Carex lamuginosa* Michx. in relation to its survival.

WILLIAMS, Clayton, S. Ecology of bluebunch wheatgrass in northwestern Wyoming.

Plant Pathology

Agricultural and Mechanical College of Texas

HUSAIN, A. H. M. The quantitative relationship of Vitamin B6, niacin, and pantothenic acid during stem rust development in wheat.

University of California, Berkeley

GEORGOPoulos, Spyros George. The relation of tolerance to chlorinated nitrobenzenes to the genetics and pathogenicity of *Hypomyces solani f. cucurbitae*.

GHAFOOR, Abdul. Black-root disease of radish.

HILDEBRAND, Donald Clair. Relation of the arbutin-hydroquinone complex in pear to the development of fire blight.

KAISER, JR., Walter Joseph. Influence of nutrition and environment on the growth and sporulation of the plant pathogen, *Verticillium albo-atrum*.

MONROE, Carl M. Comparison of *in vitro* and *in vivo* bioassay of foliage fungicides.

NASH, Shirley Mae. The existence of *Fusarium solani f. phaseoli* in nature.

SCHARPF, Robert F. Epidemiology and parasitism of the dwarf mistletoe, *Arceuthobium campylopodum* Engelm., in California.

SMITH, JR., Richard Stanley. Epidemiology and host-parasite relations in the charcoal root disease of sugar pine.

WHITNEY, Harvey Stuart. Hetero karyosis and variation in *Rhizoctonia*.

University of California, Davis

GOODING, JR., Guy Vernon. The grape yellow vein disease and characteristics of the causal virus.

LYDA, Stuart Davisson. The physiological effect of sodium pentachlorophenate on *Sclerotinia fructicola* (Wint.) Rehm.

Colorado State University

GRIFFIN, Gary John. Physiological studies of conidial germination in soil.

Cornell University

ANG, Jan Kee. The effects of temperature and humidity on scale color, shrinkage and storage losses of northern grown onions. Also the effects of maleic hydrazide on the morphology of the bulb.

CROZIER, JR., Joseph Alton. Some factors affecting the development of a sudden wilt disease of muskmelon in New York state.

HOFF, John Kay. Studies on the pathogenicity of *Trichodorus christiei* with special reference to the distribution of mitotic divisions and cellular differentiation in the *Allium cepa* root tip.

LADD, JR., Thyril Leone. The effects of the feeding of the potato leafhopper, *Empoasca fabae* (Harris), and the potato flea beetle, *Epitrix cucumeris* (Harris), on photosynthesis, respiration, and transpiration in the potato plant.

NIELSEN, Gordon Ray. Extended residual effectiveness of certain insecticides against several coleopterous bark and wood boring pests of trees.

SINCLAIR, Wayne Alfred. The root- and butt-rot of conifers caused by *Fomes annosus* with special reference to inoculum dispersal and control of the disease in New York.

STALEY, John Merrill. An investigation of the decline and mortality of red, black, and scarlet oaks.

The University of Florida

LANGDON, Kenneth R. Culture and pathogenicity of *Dothidella ulei*.

NARAIN, Avdhesh. Physiological studies of oat smuts.

WYNN, JR., Willard Kendall. Photosynthetic phosphorylation by chloroplasts of oats in relation to crown rust infection.

University of Georgia

ZYNGAS, John Phylacton. The effect of plant nutrients and antagonistic microorganisms on damping-off of cotton seedlings caused by *Rhizoctonia solani* Kuhn.

University of Illinois

CALTRIDER, Paul Gene. Germination and enzymes for glucose metabolism in fungus spores.

CHACKO, Cheruvathur Iyyakku. Two antifungal agents from streptomycetes.

EDWARDS, Dale Ivan. Biology and host-parasite relations of the stem nematode of onion, *Ditylenchus dipsaci* (Kuhn, 1857) Filipjev, 1936.

HAGAN, William Leonard. Genetics of reaction to *Puccinia sorghi* Schw. in corn seedlings.

KLARMAN, William Louis. Resistance of soybeans to three *Phytophthora* species due to the production of phytoalexin.

UPADHYAY, Janeshwar. Phomopsis blight of birdsfoot trefoil (*Lotus corniculatus* L.) caused by *Phomopsis loti* sp. nov.

Iowa State University of Science and Technology

HART, John Henderson. Development of wound heartwood in Iowa hardwoods.

LEWIS, Richard Mullington. Control of loose smut of barley.

University of Kentucky

RAO, Potu N. Subgenome interdependence in *Nicotiana tabacum* as revealed by a study of the F_1 Haplid X Diploid.

Louisiana State University

CARVER, Robert Glynn. A study of the strawberry viruses in Louisiana.

MALEKZADEH, Fereydoon. Evaluation of several bactericides as seed treatments for the control of black rot of crucifers and studies on antibacterial substance from cauliflower seeds.

VENKATASWAMY, Tady. Inheritance of resistance to races of blast disease in rice.

WHITLOCK, Leigh Stuart. Information coding and retrieval of nematology literature on the IBM 1620 computer.

University of Massachusetts

DAVID, James Harold. Investigations with the systemic insecticides phorate, O, O-Diethyl

AGRICULTURE

S-Ethylthio Methyl Phosphorodithioate, and Disyston, O, O-Diethyl S-2 Tehylthio Ethyl Phosphorodithioate, for the control of birch leaf miner, *Fenisa pusilla* Lepeletier, and eastern spruce gall aphid, *Chermes abietis* Linnaeus.

McGill University

OLTHOF, Theodorus Hendrikus Antonius. Studies on certain nematopagous fungi.

Michigan State University

NAIR, K. R. Sadashivan. Studies on the physiology of primary infection by *Erysiphe graminis tritici* El marchal, the cause of powdery mildew.

University of Minnesota

ANDERSON, Gerald William. The biology and control of some cronartium rusts on jack pine.

BANTTARI, Ernest Eino. The effect of inoculum concentration, nutritive substances and host response on spring black stem of alfalfa.

BEAN, George Albert. Studies on the physiology and pathogenicity of helminthosporium species attacking bluegrass (*Poa pratensis* L.).

GARRETT, Wiley Nathan. The asexual production of new biotypes of *Puccinia graminis* var. *tritici*.

GERWITZ, David Lawrence. Some physiological changes in bean due to infection of *Uromyces phaseoli typica*.

JØRGENSEN, Johannes. Intra- and interspecific matings of barley smut fungi.

LINE, Roland Francis. Factors affecting the germination of spores of *Puccinia graminis*.

LUTEY, Richard William. Studies on the microflora of barley kernels.

MILHOLLAND, Robert Donald. Biological adjustments of rust fungus cells to wheat cells.

MUMFORD, David Louis. Studies on the identification and nature of resistance in barley to spot blotch caused by *Helminthosporium sativum*.

ROBERTS, Bill Jiles. Seedling reaction of oats to *Puccinia graminis* var. *avenae*.

RYAN, Edward William. The effects of 5 grass species on growth and root rot of wheat.

The University of Nebraska

BOLAR, Marlin Lloyd. Organic acid metabolism in rust-affected plant tissues.

LIVNE, Avinoam. Photosynthesis of healthy and rust-affected bean and wheat plants.

North Carolina State of the University of North Carolina at Raleigh

BRODIE, Billy Burl. Pathogenicity of certain parasitic nematodes on cotton seedlings and their relationship to post-emergence damping-off caused by *Rhizoctonia solani* Kuhn and *Pythium debaryanum* Hesse.

DUKES, Philip Duskin. Inoculum potential of *Phytophthora parasitica* var. *nicotianae* as influenced by certain soil factors.

HENDRIX, James William. Lipid nutrition of *Phytophthora parasitica* var. *nicotianae*.

Oregon State University

BARTLETT, Allan Burns. Relation of nitrogenous substances in rose leaves to powdery mildew resistance.

LAWSON, Roger Harold. Isolation and identification of dahlia viruses.

WELTON, Richard Elroy. Susceptibility of peas to aphid inoculation with bean yellow mosaic virus.

YADAV, Babu Singh. Effect of ultraviolet and visible radiation on the sporulation of species of *Helminthosporium*.

The Pennsylvania State University

COBB, JR., Fields White. Oak wilt in chestnut oak: its significance, symptomatology, and factors affecting its occurrence.

HAAS, Jerry Henry. The pathogenicity of *Thielaviopsis basicola* (Berk. & Br.) Ferraris to *Pelargonium X hortorum* B.

WILLIAMS, Donald Bruce. Studies of the nature and control of York spot, a physiological disorder of the York Imperial apple.

Purdue University

SHANDS, Henry Lee. Inheritance of resistance to loose smut in four winter barleys.

University of Rhode Island

CHIARAVELLE, Philip David. The biology and pathogenicity of the grass root-gall Nematoda, *Ditylenchus radicicola* (Nematoda: Tylenchidae).

Washington State University

DAMSTEEGT, Vernon Dale. The inheritance of tolerance in barley to barley yellow dwarf.

DIETZ, Sherl M. Fundamental studies of the biology and parasitism of the stem smut of grasses, *Ustilago hypodytes* (Schlect.) Fries.

HAWBAKER, John Allen. Investigations on the problem of high embryonic mortality associated with initial egg production of chickens.

HEINER, Robert E. The action of the chemical mutagen, diethyl sulfate, on barley.

TACHIBANA, Hideo. Life cycle phenomena and host-parasite interaction in *Urocystis colchici* (Schlecht.) Rabenh. (*U. cepulae* Frost).

The University of Wisconsin

BERRY, Robert Wade. Studies on the genetics of the host-parasite relationship in corn leaf rust.

BLAIR, Gaston Percival. Red ring disease of the coconut palm insights by *Rhadinaphelenchus cocophilus* Cobb 1919 Godfrey 1960.

CARLSON, Lester William. Physiology, pathogenicity and control of fungi causing certain cranberry disease.

CHAND, Jnanendra Nath. Studies on the angular leaf spot of cucumber.

GEARY, Thomas Francis. Oak wilt development and its reduction by growth regulators. I. Production and activity of oak wilt fungus pectinase, cellulase, and auxin. II. Effect of halogenated benzoic acids on oak trees, with oak wilt disease, and the oak wilt fungus.

GONZALEZ, Luis Carlos. Further studies on the response to temperature of cabbage virus A infection in *Nicotiana glutinosa* L. and *Brassica napus* L.

GRiffin, Gerald Dougal. Pathological and ecological relationships between *Xiphinema americanum* Cobb and commercial spruce.

KREBILL, Richard G. Etiology of a jack and red pine plantation decline characterized by root weevil injury and fungal deterioration.

KUMAR, Sushil. Tuberization *in vitro* and physiological studies with potato callus tissues.

MARKS, Geoffrey C. Shoot blight of poplars caused by *Colletotrichum gloeosporioides*.

MARTINEZ, Eugenio Salazar. Factors affecting growth, sporulation, pathogenicity, and dissemination of *Leptosphaerulina briosiana*.

RIFFLE, Jerry William. Nematodes associated with maple blight and maple dieback in Wisconsin.

RIVERA BATLLE, Carmen Milagros. Further studies on manganese nutrition of tobacco in relation to virus infection and synthesis.

ROGERS, Jack David. Hypoxylon canker of aspen. I: Screening for disease resistance. II. Developmental morphology and cytology of *Hypoxylon pruinatum*.

RUPPEL, Earl George. Relationships of pea enation mosaic virus isolates.

SIEVERT, Richard Carl. Variation within single cell clones of plant tissue cultures.

WALL, Ronald Eugene. Comparative studies of the varieties of *Fomes ignarius* (L. ex FR.) Kickx.

Soil Science

Agricultural and Mechanical College of Texas

CHAPIN, John Stillman. The influence of added fertilizer materials upon soil salt concentration and upon cotton seed germination.

University of Arizona

BULLOCK, John Sumner. The influence of soil temperature on solubility and availability of plant nutrients.

University of California, Berkeley

CARLSON, Robert Marvin. A study of some aspects of cation exchange in soils.

PARTHENIADES, Emmanuel. A study of erosion and deposition of cohesive soils in salt water.

SKUJINS, John Janis. Enzymatic and microbial activity in radiation sterilized soil.

University of California, Riverside

LeROUX, Frederick Holmes. Alkali-ion sorption and exchange by soils and their size and mineral separates.

Cornell University

CASSADY, JR., Claude Franklin. The use of experimental data in estimating the productivities of New York soils.

DeMENT, James Alderson. The morphology and genesis of the subarctic brown forest soils of central Alaska.

KNOLL, Hendrik Andreas. The influence of soil temperature on the growth and contents of phosphorus and anthocyanin of corn.

TROEH, Frederick Roy. Quantitative landform parameters correlated to six soil series in New York state.

University of Hawaii

BECKMANN, Geoffrey George. The genesis of certain Hawaiian paleosols and their alteration following burial.

DeDATTA, Surajit Kumar. Availability of phosphorus and utilization of phosphate fertilizers in some great soil groups of Hawaii.

Kansas State University

WITHEE, Laureston Van. Change of phosphate potentials of calcareous soils upon additions of phosphorus.

DOCTORAL DISSERTATIONS 1962-1963

- Louisiana State University
- NAYAR, Narayanan Madhavan. Cytogenetic studies of gamma irradiated rice varieties.
- McGill University
- LOWE, Lawrence Edward. The sulphur status of Quebec soils with particular reference to the amount of organically combined sulphur and the nature of its combination.
- NYBORG, Marvin Peter Karl. Fixation of ammonia by soils.
- SHIEH, Hang-shan. The metabolism of coumarin and o-coumaric acid by soil fungi.
- Oklahoma State University
- MEYER, Raymond E. Effects of osmotic stress on certain metabolic components of wheat.
- OTT, Billy Joe. Effect of physiological preconditioning on orthophosphate absorption by wheat roots.
- Oregon State University
- STEVENSON, David Stuart. Effects of soil moisture-tension on rubidium uptake by sunflowers.
- YAHNER, Joseph Edward. Interrelations of magnesium, lime, and potassium in broccoli grown on two western Oregon soils.
- The Pennsylvania State University
- SHIPP, Raymond Francis. Bulk density and coarse fragment determinations on some Pennsylvania soils.
- Purdue University
- AL NAKSHABANDI, Ghazi Ahmad. The effect of bulk density and moisture tension on the thermal conductivity of soils.
- HARRIS, Clare Irving. Adsorption and desorption of herbicides by soil.
- OVERREIN, Lars. The chemistry of nitrogen transformations in soil.
- Rutgers - the State University
- MALO, Bernard A. Soil absorption of atmospheric ammonia.
- Utah State University
- BAHRANI, Bozorg. Pressure dependence of soil water matric potential.
- Virginia Polytechnic Institute
- Du PLESSIS, Marius Charles Francois. Chemisorption of ammoniacal nitrogen by clays.
- Washington State University
- HSIEH, Jack Jui-Chang. A technique for controlling soil water content in the vicinity of root hairs and its application to soil-water-plant studies.
- STEWART, Gordon LeRoy. Measurement by neutron attenuation and applications to unsaturated flow of soil water.
- ANATOMY**
- University of Alabama
- GARRETT, Marion Huey. The autonomic nervous system of the Rhesus monkey.
- University of California, Berkeley
- CHAMBERLAIN, Jack Greenfield. Effects of 6-aminonicotinamide on rat embryogenesis.
- University of California, Los Angeles
- CAMERON, Ivan Lee. Studies of cell proliferation and DNA synthesis using autoradiography.
- GORSKI, Roger Anthony. Influence of prepubertal administration of sex steroids on hypothalamo-hypophyseal ovarian interrelationships.
- University of California, San Francisco Medical Center
- CHIN, Edwin. Combinations of teratogenic procedures in rat embryogenesis.
- Columbia University
- MIKSIC, Mary C. Autoradiographic evidence of post-natal oogenesis in the mouse.
- PETRAS, James M. The reticulospinal tracts: pathways, distribution and terminations in the spinal cord: an experimental anatomical study in the cat based upon silver-impregnation methods.
- Emory University
- EDWARDS, Betty Fountain. Effects of radiation and supragravitational forces on growth.
- HOPE, James. Ultrastructural studies on the development of oocytes.
- McKELVEY, Robert Wakefield. The relation of the juxtaglomerular to hypertension in rats.
- NANDY, Kalidas. Histochemistry of the neurons of the spinal cord in the rat.
- QUINTON-COX, Robert. Ultrastructural changes in ageing cells.
- SKANDALAKIS, John E. Smooth muscle tumors of the small intestine; six cases and a review of the literature.
- The George Washington University
- WALENSKY, Norman Aaron. A study of anterior femoral curvature in man.
- University of Illinois
- SAFANIE, Alvin Harold. The components of the vagus nerve of the pig.
- University of Illinois at the Medical Center
- BLAHA, Gordon Charles. Factors involved in decline of reproductive capability in the aged female golden hamster.
- BOCKMAN, Dale Edward. Relation between pregnancy and the homograft reaction in rats.
- EISENBERG, Sara. Morphological and biochemical changes induced by ribonucleic acid on chick embryo ectoderm.
- Indiana University
- CHAUDHRY, Muhammad Siddique. A study of the bronchopulmonary vasculature in postnatal growth of the dog.
- University of Kansas
- KHAN, Muhammad Yunus. Studies on the effects of a single injection of testosterone propionate into the infant female rat.
- Louisiana State University
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Purdue University

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BUKER, Robert Joe. General and specific combining ability in alfalfa.

COBB, Glenn Wayne. Some effects of pressure on growth and differentiation of the roots of *Glycine max*.

DEAN, John Mark. A comparative study of carbohydrate metabolism in fish as affected by temperature and exercise.

DEWAR, Norman Ellison. Chemoautotrophic assimilation of $C^{14}O_2$ by *Hydrogenomonas facilis*.

DILLEY, Richard Alan. Subcellular distribution and function of α -tocopherol in higher plants.

GIBSON, Margaret Sarah. The biogenesis of ethylene.

GILBERT, Scott Kendall. Chemical mutagenesis in small grains.

HANKINS, William Alfred. The relationship of a red cell sensitizing antigen to the bacterial cell.

JACKSON, Robert William. Studies on the nature of a red cell sensitizing substance from streptococci.

KEELING, Richard Paire. Some effects of temperature alternations upon the aerobic production of fumaric acid by *Rhizopus arrhizus* NRRL 1526.

KELLEY, Alden Gerard. Studies on morphogenesis in gametophytes *Pteridium aquilinum* (L.) Kuhn.

KINSLEY, JR., Richard Nelson. The fungi associated with barley and their influence upon yeast.

LARSON, Laurence Arthur. Amino acid metabolism in pea seedlings.

MacLENNAN, David Herman. Compartmentation of organic acids in plant tissues.

MALAYER, Jeanette Nadine Clements. A developmental study of the mutant tomato plant, side-shootless.

MOORE, Richard Davis. Hormonal and other factors influencing the contractile response of strips of mammary glands *in vitro*.

NELLIS, Lois Fonda. A taxonomic study of the genus *Chondromyces*.

SHAPIRO, Nathan. Genetic effects of X-irradiation and hydration on seed and pollen of tomato.

SHIVELY, Jessup Mac Lean. Cellular responses of the pseudomonads to lytic systems.

SPLITTSTOESSER, Walter Emil. Some aspects of dark CO₂ fixation in storage tissues.

SURDY, Theodore Ernest. Lytic parameters of the Achromobacter.

Rice University

BATES, William Kelvin. Parathyroid mediation of the hydroxyproline content of extra-cellular fluids.

The University of Rochester

HEWITT, Roger Roy. Metabolism of protectant doses of L-cysteine by rat and guinea pig with reference to post-irradiation taurinuria.

MAILLIE, Hugh David. Studies of the effects of moderate levels of x-irradiation upon the renal hemodynamic functions of the dog.

MUTSCHLER, Letitia Eleanor. The effect of orally administered epsilon aminocaproic acid on the deposition and/or retention of radio-iodinated fibrinogen and antibodies to fibrinogen in subcutaneous rat plasma clots and turpentine-induced abscesses of the rat.

STUART, Bruce Owen. The radioprotection of *Saccharomyces cerevisiae* by cystamine.

The Rockefeller Institute

DAVIDSON, Eric Harris. The expression of differentiated character in monolayer tissue culture cells.

GOMATOS, Peter John. Animal and plant viruses with double-stranded ribonucleic acid.

KENT, Joan Louise. Genetic recombination in pneumococcal transformation: the role of integrity and heterogeneity of deoxyribonucleate molecules, as reflected in kinetic analysis.

PARKER, 2nd, William Carey. Genetic and biochemical studies on the haptoglobins, transferrins, and group specific components. Regulatory mechanisms in human genetics.

Rutgers - the State University

DURFEE, Wayne King. Cardiovascular reflex mechanisms in the fowl.

TUCKER, H. Allen. The nucleic acid content of rat mammary glands.

St. Bonaventure University

BETZ, John V. Studies of bacteriophages for *Clostridium sporogenes*.

St. John's University

CARITO, Sebastian Lawrence. Biosynthesis of alanine by *Fusarium moniliforme* in a chemically defined medium.

CATALANO, Gloria Rose. Production of glutamic acid and alanine by *Cephalosporium longisporum*.

de la SIERRA, Angell O. The cytochemical and related biochemical aspects of the transformation of chick embryo fibroblasts to sarcoma cells by rous sarcoma virus.

HAUSER, C.D.P., Sister Mary Martin. The effect of purine antagonists on the nuclei of *Paramecium caudatum*.

REILLY, C.S.J., Sister Marguerite. The importance of absorbents in the nutrition of *Paramecium caudatum*.

St. Louis University

DUNDON, S.J., Thomas Rickard. Ontogenesis of three *pachysylla* galls on *celtis*.

MERSMANN, Harry John. Metabolism of tricarboxylic acid cycle intermediates and concomitant oxidation phosphorylation by turtle cardiac mitochondria.

University of Saskatchewan

HAMMER, U. Theodore. An ecological study of certain blue-green algae (Cyanophyta) in Saskatchewan lakes.

QUICK, William Andrew. Some relationships of nucleic acids and their precursors to the development of rust infections on wheat leaves.

University of Southern California

BABEL, John Stanley. Reproduction, life history and ecology of the round stingray, *Urolophus halleri* Cooper.

Stanford University

ALLEN, Marcia Harriet Katzman. A study of reversion with the A gene: a protein system.

GANESAN, Adayapalam Tyagaraja. Physical and biological studies of *Bacillus subtilis* deoxyribonucleic acid.

GLYNN, Peter William. Ecological studies on the *Endocladia muricata-Balanus glandula* association in the intertidal zone in Monterey Bay, California.

The University of Tennessee

HOSSAIN, Mir Mosharraf. Effects of massive doses of gamma radiation (120,000r) on the chromosomes of successive generations of *Hymenolepis diminuta*.

The University of Texas

ALLEN, Mary Maurice Belt. The metabolic and genetic effects of deoxyribonucleic acid base analogs on *Drosophila*.

HENDEE, William Richard. The effects of 5-bromodeoxyuridine on radiosensitivity, DNA content, and fine structure of *hela* cells.

JENSEN, Roy Alfred. Ultraviolet light induced mutation in *Bacillus subtilis* - analyzed by transformation.

Tufts University

VAN UMMERSEN, Claire Ann. An experimental study of developmental abnormalities induced in the chick embryo by exposure to radio-frequency waves.

Utah State University

ANDERSON, Max Arthur. A study of the productivity of macro-invertebrates and periphyton in the Smith and Morehouse Creek, Summit County, Utah.

TERRY, Kelland David. Distinction among four forms of hurler's syndrome and two related diseases by their acid mucopolysaccharide excretion pattern.

DOCTORAL DISSERTATIONS 1962-1963

- University of Virginia
- LAUTENSCHLAGER, Edward Walter. *Diplostomulum trituri*, a larval strigeid trematode.
- STEEVES, III, Harrison Ross. The effects of starvation on metabolism in the isopod *Lirceus brachyurus* (Harger).
- WIMER, Larry Thomas. Biochemical changes associated with growth and development of the larval blowfly, *Phormia regina*, Meigen.
- Washington State University
- HANOVER, James William. Comparative biochemistry and physiology of western white pine (*Pinus monticola* Dougl.) resistant and susceptible to infection by the blister rust fungus (*Cronartium ribicola* Fischer).
- HARLE, John Rodney. Modification of radiobiological oxygen effects in very dry barley seeds.
- University of Washington
- JOYNER, Timothy. Effects of the biological specificity of zinc on the distribution of zinc-65 in the fish fauna of a coral atoll lagoon.
- Western Reserve University
- COLLINS, Robert Louis. Genetics of avoidance conditioning in mice: a diallel study.
- The University of Wisconsin
- BROWN, Douglas Fletcher. Paramutability of R^S and r^r mutants from the standard R^r allele in maize.
- DATTA, Surinder Parkash. Immunogenetic studies of cattle transferrins and blood groups.
- GABERT, August Carl. Factors influencing the frequency of haploids in the common potato (*Solanum tuberosum* L.).
- KERMICLE, Jerry Lee. Metastability of para-mutant forms of the *R* gene in maize.
- KIECKHEFER, Robert William. Some factors affecting populations of the potato leafhopper, *Empoasca fabae* (Harris).
- MANGE, Arthur Purvin. The population structure of a human isolate.
- MUELLER, Mary Joan. Immunogenetic studies of *Columbidae*.
- SOLOMON, Joel Martin. Studies in quantitative hemagglutination with human erythrocytes.
- TEMIN, Rayla G. Genetic loads in equilibrium populations of *Drosophila melanogaster*.
- TSENG, Pao-Min. Effects of gamma-ray irradiation of pollen.
- Yale University.
- GILBERT, John Jouett. Some aspects of sexuality in the rotifer genus *Brachionus*.
- MANGUM, Charlotte Preston. Studies on speciation in Maldanid polychaetes of the North American Atlantic Coast.
- MCGILL, David Alan. The distribution of phosphorus and oxygen in the Atlantic Ocean.
- MUNKRES, Kenneth Dean. A gene-enzyme system in *Neurospora crassa*.
- WESTON, James Arthur. A radioautographic analysis of the migration and localization of trunk neural crest cells in the chick.
- WHITTAKER, John Richard. A chemical study of the dedifferentiation of chick retinal pigment cells in cell culture.
- University of California, Berkeley
- BIBRING, Thomas. An analysis of experimentally induced four-way cell division in developing echinoderm eggs.
- California Institute of Technology
- STUDIER, Frederick William. Studies on the DNA of bacteriophage T7.
- Cornell University
- HOWARD, Harold Henry. Limnology of Cayuga Lake.
- Harvard University
- SAVITZ, David. Osmotic equilibria in human erythrocytes studies by hematocrit and isotope dilution.
- Institutum Divi Thomae Foundation
- FITZPATRICK, C.C.V.I., Sister Mary Antonietta. Biological effects of low velocity electrons.
- The Johns Hopkins University
- KOENIG, Donald Frederick. The structure of chlorohemin, $C_{34}H_{32}N_4O_4FeCl$.
- The University of Michigan
- WEGST, JR., Walter Frederick. Wavelength-dependent effects of low-energy x-rays on mammalian tissue cells.
- New York University
- GROSS, Leo. A study of the biological effects of magnetic fields.
- Oregon State University
- WILLIS, David Lee. Radiotracer methodology in biological science.
- The Pennsylvania State University
- LEHMAN, Robert Chester. The determination of several physical properties of *Escherichia coli* Lysate.
- SITTLER, Orvid Dayle. Factors influencing locomotor activity levels and activity rhythms in intact and decapitated cockroaches.
- University of Pittsburgh
- PRINTZ, Morton P. An investigation of *Limulus hemocyanin* and the formation of its active monomer.
- The University of Rochester
- TAVES, Donald Ralph. Factors controlling calcification.
- The Rockefeller Institute
- ADOLPH, Alan Robert. A stochastic model of neuron function and its application to subthreshold processes in the limulus photoreceptor and frog neuromuscular junction.
- University of Southern California
- SLAYMAN, Carolyn Walch. Potassium transport in *Neurospora crassa*.
- University of Toronto
- FRIESEN, James Donald. Radiobiological studies of vaccinia virus and encephalomyocarditis virus.
- MAK, Stanley. The effects of x-rays on the progress of mammalian cells through the division cycle *in vitro*.
- ROTBENBERG, Arthur Daniel. Body scanning.
- STANNERS, Clifford Paul. A study of the transformation of hamster embryo cells in culture by polyoma virus.
- Yale University
- HERMAN, Robert Kahrs. An autoradiographic study of bacterial conjugation.
- BOTANY
- Agricultural and Mechanical College of Texas
- PAXSON, John Bowers. Some effects of plant regulators on embryogeny in *Zea mays*.
- University of Alabama
- FARMER, Joe Allen. An ecological life history of *Croton alabamensis* E.A. Smith ex Chapman.
- NICHOLS, Herbert Wayne. Studies in freshwater Rhodophycophyta.
- University of Arizona
- DODGE, Richard Archie. Investigations into the ecological relationships of ponderosa pine in southeast Arizona.
- TSCHIRLEY, Fred H. A physio-ecological study of jumping cholla (*Opuntia fulgida* Engelm.).
- University of California, Berkeley
- NEWCOMB, Gene Blanchard. Geographic variation in *Pinus attenuata* Lemm.
- OHKI, Kenneth. Salt absorption by excised barley roots in relation to antecedent nutrition and growth.
- PIEPER, Rex Delane. Production and chemical composition of arctic tundra vegetation and their relation to the lemming cycle.
- SPENCE, Willard Lewis. A biosystematic study of the genus *Lessingia* Cham. (Compositae).
- WARING, Richard Harvey. Vegetation of the California coast redwood region in relation to gradients of moisture, nutrients, light, and temperature.
- WEILER, JR., John Henry. A biosystematic study of the genus *Downingia*.
- University of California, Davis
- FORDE, Margot Bernice. Variation in the natural populations of Monterey pine (*Pinus radiata* Don) in California.

BOTANY

TEPPER, Herbert Bernard. Studies on the vegetative shoot apex of *Pinus ponderosa*.

THOMSON, William Walter. The fine structure of mineral deficient chloroplasts.

University of California, Los Angeles

BATES, David Martin. The genus *Malacothamnus*.

CARPENTER, Bruce Henry. The effect on flowering of Biloxi soybean of multiple light perturbations with different qualities of radiation given during long dark periods.

CLARK, Ralph Barlow. Some aspects of synthesis and accumulation of organic acids in citrus fruit vesicles.

COULTER, Murray Whitfield. Photoperiodic responses of Biloxi soybean in a tridiurnal cycle.

DEVELLIS, Jean. Biosynthesis of malonate in bush bean roots.

GOODIN, Joe Ray. Biochemical and morphological changes associated with juvenile and mature growth phases in *Hedera*.

HALE, Verle Quinn. Absorption, translocations, and possible metabolism of metal chelating agents by plants.

HARTMANN, Richard William. Interpretation of pairing in polyhaploid *Tagetes patula*.

KIM, young Tai. Synthesis of infectious tobacco mosaic virus RNA by cell-free extracts obtained from TMV-infected plant tissues.

LOUIE, JR., Dan Share. Studies on abscission: I. Auxin in the physiology of abscission. II. Water relations and the defoliability of cotton.

PROCOPIOU, John Christou. C¹⁴ uptake from urea and bicarbonate by bush beans.

SANDOVAL, James Albert. The effect of gibberellin acid and other plant growth regulators on stem elongation of defoliated and decapitated plants.

SPANIS, William Curt. Bacterial detoxication of organic mercurial fungicides.

SUFI, Sadek Mustafa. Some investigations of factors which influence solute uptake by bush beans.

SWETS, Willem Adrianus. The effect of dinitrophenol and of other inhibitors on the uptake and metabolism of 2,4-dichlorophenoxy acetic acid by Chlorella.

WRIGHT, Robert Dennison. Some ecological studies on bristlecone pine in the White Mountains of California.

YOUNG, Levern Benjamin. Changes in chlorophyll and carotenoid content in the flavedo of the Valencia orange as affected by temperature and maturation.

University of Chicago

ABROL, Yash Pal. Changes in water content and chemical constituents of tomato seeds associated with fruit development.

BRYAN, Gary Wallace. Protochlorophyllide *a* metabolism and chlorophyllide *a* production by a Chlorella mutant in response to iron and spectral exposure.

DORN, Robert Allan. Effects of light quality and intensity on *Tilia americana*.

DUTTA, Tushar Ranjan. Effects of boron on growth and lignification in sunflower tissue and organ cultures.

JACOBSON, Ann Beatrice. Cytochemical studies concerning the occurrence and distribution of RNA in plastids of *Zea mays*.

KHAN, Anwar Ahmad. Isolation and characterization of inhibitors from *Xanthium* and their relation to photomorphogenesis.

KUPELIAN, Dorothy Thorneithwaite. Some effects of photoperiodic treatment on *Andropogon gerardii*.

McMAHON, Daniel Stanton. Edaphic factors limiting the distribution of *Corispermum hyssopifolium* L.

PROCTOR, Robert W. Morphological responses of *Chenopodium leptophyllum* to controlled photoperiod regimes.

SECKBACH, Joseph. The effect of photoperiod and light quality on the xanthanin-xanthin content of leaves of *Xanthium pensylvanicum*.

WOHLRAB, Gisela. An analysis of fungal populations in Indiana dune sand.

The Claremont Graduate School

ANASTASIOU, Clifford John. The fungi of the Salton Sea — their taxonomy, biology, and relationships.

GREGORY, David Palache. Hawkmoth pollination in the genus *Oenothera*.

University of Colorado

AMEN, Ralph DuWayne. Germination and dormancy in two species of alpine Carex from the Colorado Front Range.

AWASTHI, Dharani Dhar. Contributions to lichen flora of India with special reference to microlichens.

STEGNER, JR., Robert William. Some physiological characteristics of an albino mutant of maize.

WILLARD, Beatrice Elizabeth. Phytosociology of the alpine tundra of Trail Ridge, Rocky Mountain National Park, Colorado.

Colorado State University

COLLINS, Walter Thomas. Studies on the biochemistry of flowering of *Xanthium pensylvanicum*.

MELLOR, Robert Stanley. Influence of environmental factors on the temperature and energy transfer mechanisms of plant leaves.

SPOMER, George Guy. Physiological ecology of alpine plants.

Columbia University

BUCKLEY, Edward H. Some relations between the organic acid content and the response of spinach to different photoperiods. [Boyce Thompson Institute, 21: 183-99, 1961.]

FINOCCHIO, Alfred F. Simple pits and other anatomical aspects of certain moss gametophores.

Cornell University

MERKLE, Morris Guy. The determination of kuron in birdsfoot trefoil (*Lotus corniculatus*) and grasses.

PHILBRICK, Ralph Nowell. Biosystematic studies of two Pacific coast opuntias.

Duke University

JOHNSEN, Ardis Brask. Bryological and lichenological studies of West Fork, Arizona.

PATTEN, Duncan T. The vegetational pattern in relation to environments in the Madison Range, Montana.

SCOTT, David. The standing crop and productivity of alpine tundra in relation to environmental factors.

VAN WYK, Jacobus J. P. Savannah communities south of the Pilaansberg Mountains, in the western Transvaal.

WAGNER, Richard Henry. The ecology of *Uniola paniculata* L. in the dune-strand habitat of North Carolina.

WELCH, Bruce Lynn. Aspects of succession in shallow coastal waters of the Caribbean.

The University of Florida

BENDANA, Frank Ernest. Effects of nodules on geotropism of roots.

EDMISTEN, Joe Allen. The ecology of the Florida pine flatwoods.

FOZDAR, Birendra Singh. Cytological investigation of parents, offspring and backcross derivatives involved in the interspecific cross *Phaseolus lunatus* L. x *P. polystachys* (L.) B.S.P.

ISRAEL, Herbert William. An electron microscope study of megasporule development in *Dendrobium* orchids.

WISE, Byron Hooper. Acid-soluble phosphate compounds of corn roots.

University of Georgia

BANKS, Donald Jack. Taxonomy of *Paspalum*. Group Setacea.

University of Hawaii

ARAGAKI, Minoru. Relation of light and temperature to the sporulation of *Alternaria tomato* (Cke.) Weber.

University of Illinois

HADLEY, Elmer Burton. Photosynthetic and respiratory rates of alpine plants on Mt. Washington, New Hampshire.

McMAHON, Vern August. Effects of indoleacetic acid on the metabolism of acetate-1-C¹⁴ by cell-free preparations from cucumber cotyledons.

PAMPLIN, Richard Alan. The anatomical development of the ovule and seed in the soybean.

UECKER, Francis August. Morphology and cytology of *Stephensia shanori*.

Indiana University

BIEBEL, Paul Joseph. Sexual reproduction in *Netrium digitus* and other saccoderm desmids.

BLAYDES, David Fairfield. Biochemical and physiological studies of kinetin action.

CLEWELL, Andre Francis. Contributions to a revision of the native North American species of *Lespedeza* and studies of the variation of certain taxa.

COOK, Philip William. Taxonomic significance of conjugation and host-parasite interactions in *Closterium*.

GOLDSTEIN, Melvin Earl. Speciation and mating type behavior in *Eulorina*.

HAYAT, Mohammed Arif. Developmental and comparative anatomy of Ranalean seedlings (with special emphasis on the Annonaceae).

LANG, Norma Jean. Electron microscopy of the Volvocaceae and Astrephomenaceae.

Iowa State University of Science and Technology

BORGMAN, Robert Peter. Soil temperature-moisture relations of pink root of onions.

DeLISLE, Donald Gordon. Taxonomy and distribution of the genus *Cenchrus*.

IRVINE, Barry Robert. Germination and respiration of *Puccinia coronata* uredospores.

DOCTORAL DISSERTATIONS 1962-1963

- KOPOOSHIAN, Haig. Seed character relationships in the Leguminosae.
- MITCHELL, William Warren. Variation and relationships in some rhizomatous species of *Muhlenbergia*.
- NIETO-HATEM, Jorge. Seed dormancy in *Setaria lutescens*.
- SANSING, Norman Glenn. Translocation of P³², N¹⁵, and C¹⁴ in plants.
- STOERMER, Eugene Filmore. Post-Pleistocene diatoms from Lake West Okoboji, Iowa.
- TANNER, Jack William. An external effect of inorganic nitrogen on nodulation.

University of Kansas

- RAJAGOPALAN, Chorinjeth. Studies of some wood-rotting fungi from northeastern Kansas.

Kansas State University

- MORGAN, Frederic Lee. Studies of microorganisms lytic to cereal rust uredospore germ tubes.
- PATHAK, Virendra Kumar. Observations on numbers and viability of certain airborne fungus spores.

Lehigh University

- PRITCHARD, Hayden Nelson. Cytochemical studies on megasporogenesis and embryogenesis in *Stellaria media* (L.) Cyrill.

Louisiana State University

- LEWIS, Arnold David. Some effects of Diuron-DBSA on early growth, development and certain respiratory enzymes of soybean.
- NEGI, Narendra Singh. Effects of treatment with different oxygen concentrations on germination of sugarcane (*Saccharum officinarum* L.) stalk and nut grass (*Cyperus rotundus* L.).
- OJEDA HERRERA, Ing. Justi Pastor. Relative merits of single and bunch plantings in the selection of sugarcane seedlings.

University of Maryland

- BARDEN, John Allan. Developmental anatomy of vascular tissues in the York Imperial apple, with special emphasis on the pedicel.
- WESCOTT, Elbert Wayne. Uptake of cycloheximide by sensitive and resistant yeast, and effect of the antibiotic on alcohol dehydrogenase.

University of Massachusetts

- MAYNARD, Donald Nelson. A study of cavity spot as related to cation accumulation in carrot (*Daucus carota* L.).

The University of Michigan

- BAKER, David Bruce. The relationship between cell wall metabolism and cell elongation.
- GRAHAM, Alan Keith. The Sucker Creek-Trout Creek Miocene floras of southeastern Oregon.
- KAPP, Ronald Ormond. Pollen analytical investigations of Pleistocene deposits on the southern high plains.
- KUMARI, Govindasarma Kadambari. The primary vascular system of gymnosperms: a comparative study based on thirty species of twenty-three genera of conifers augmented by data from extinct gymnosperms and progymnosperms.
- PIPEN, Richard Wayne. A revision of the genus *Cacalia* (Compositae) in Mexico.

- SCHOOLEY, James Bartram. The incompatibility mechanism of the Biennis Group 1 races of *Oenothera*.

- SCHUYLER, Alfred Ernest. A biosystematic study of the *Scirpus cyperinus* complex.

- SHACKLETTE, Hansford Threlkeld. Influences of the soil on boreal and arctic plant communities.

- WILCE, Mary Joan Hubbell. Section complanata of the genus *Lycopodium*.

Michigan State University

- SONDERMAN, Robert Lee. Objective measurement of hardness of Azalea.

- MALCOLM, William McLagan. The root-parasitism of *Castilleja coccinea*.

- SAENZ, Eduardo Jimenez. Studies on photosynthesis. Part I. Biosynthesis of sucrose from glycolate. Part II. Utilization of bicarbonate by washed algae.

University of Minnesota

- ABELES, Fred Bernard. Cell free photoreduction.

- NORTON, Norman James. Palynology of the Upper Cretaceous and Lower Tertiary in the type locality of the Hell Creek formation.

University of Missouri

- SULLIVAN, Charles Yancy. The measurement of sulphydryl groups in plant homogenates and their relation to frost resistance.

- VANCE, Benjamin Dwain. Some ecological relationships of cyanophycean waterblooms.

The University of Nebraska

- SWIFT, Lloyd Harrison. Venation pattern in the lamina of solanaceous seedlings.

University of New Hampshire

- WILLIAMS, JR., George. The effects of 2,4-D on mustard plants as modified light quality.

New York University

- KIRSHNER, Harold. The nature vocabulary of Notker Labeo: a study in early German scientific terminology.

The University of North Carolina at Chapel Hill

- GUPTON, Oscar Wilmont. An analysis of the taxonomic criteria as applied to the genus *Monotropa*.

- JEFFREYS, Donald Bearss. The nature of growth inhibition in *Lycopersicon esculentum* plants treated with 5-fluorouracil.

The Ohio State University

- HORST, Ralph Kenneth. Pathogenic and enzymatic variations in *Fusarium oxysporum* f. *callistephi*, causal agent of aster wilt.

- KARR, Eugene Julius. The effect of intermittent light on the growth and development of plants.

- PATHAK, Sadashiv Gopal. Antagonistic properties of a streptomyces species against the causal agent of Fusarium wilt of tomatoes.

- PINTO, Patrick Vincent Carmel. The influence of substrate composition and environment on the amino acid content of the mycelia of some *Fungi imperfecti*.

- WILLIAMS, Nelson Noel. Pollen analysis of two central Ohio bogs.

- WILLIS, George Mirron. Analysis and biological significance of soil fungistasis.

The University of Oklahoma

- LIN, Chu-Yung. Effects of plant growth regulators on amino acid metabolism in oat leaves.

- PORTER, JR., Clyde Lehman. A comparative study of upland and bottomland types of *Panicum virgatum* L. (switchgrass) in the vicinity of Norman, Oklahoma.

Oklahoma State University

- BORGAONKAR, Digamber Shankarrao. Apomixis and speciation in the Bothriochloinae.

- FARUQI, Shamin Ahmad. Cytogeography of the *Bothriochloa intermedia* complex.

Oregon State University

- BAILEY, Warren Hutchinson. Revegetation in the 1914-1915 devastated area of Lassen Volcanic National Park.

- BERRY, Dick Wallace. An ecological study of a disjunct ponderosa pine forest in the Northern Great Basin in Oregon.

- DUBE, Maurice Andrew. Life history studies in *Monostroma fuscum* (Post. and Rupr.) Wittr.

- KUMLER, Marion Lawrence. Succession and certain adaptative features of plants native to the sand dunes of the Oregon coast.

- OWENS, John Neal. Origin and differentiation of the seed cone of *Pseudotsuga menziesii* (Mirbel) Franco.

- PEEK, Chester Allen. The humic water of Klamath marsh and its effect on the growth of *Anabaena cylindrica* Lemm. in culture.

University of Pennsylvania

- CHEN, James Che-Wen. Quantitative analysis of the growth of leaf primordia in *Eupatorium rugosum* houtt.

The Pennsylvania State University

- MAULL, Theodore Ward. Seed germination and establishment of *Pinus rigida* Miller (an autecological study).

- WUEST, Paul Joseph. A quantitative study of *Meloidogyne hapla* eggs as affected by temperature and ultraviolet radiation.

Philadelphia College of Pharmacy and Science

- BHATTI, Waqar Hamid. Histological studies with histological key of the species of the genus *Salvia* of northeastern United States and adjacent Canada.

University of Pittsburgh

- DOERING, Grant Richardson. Deoxyribonucleosides in plant tissue cultures.

- ENGLISH, Sandra Marie. A limnological study of Sandy Lake, Pennsylvania with special reference to algal stratification and productivity.

Princeton University

- KAUSHIK, Mahavir Prasad. The physiology of abscission.

Purdue University

- AVERRE, III, Charles Wilson. Differential host-parasite relation between *Glycine max* and *Phytophthora megasperma* var. *sojae*.

BUSINESS ADMINISTRATION

FORDYCE, JR., Claude. Studies of the mechanisms of variation of *Verticillium albo-atrum* Rke. and Berth.

GUSE, Lynn Robert. Physiological and residual studies of herbicides for aquatic weed control.

HIRATSUKA, Yasuyuki. Morphology of the spermatogonia of the rust fungi.

MACIEJOWSKA, Zofia. Studies on soil microflora and biological control of damping-off of apple.

NOVEROSKE, Robert Lee. Phloridzin — its metabolism and role in conditioning resistance in malus to *Venturia inaequalis*.

ZAROOGIAN, Gerald Edward. Purification and physiological studies of a plant regulator produced by *Penicillium thomii* and *Byssochlamys nivea*.

University of Rhode Island

ARNOLD, Allan Windsor. Factors affecting anthocyanin synthesis and morphogenesis in the hypocotyl of *Impatiens balsamina* L.

HARTMANN, George Charles. An investigation of the nuclear behavior of *Alternaria tenuis*.

WALLENSTEIN, Aaron. Modification of morphology, anatomy, and physiology of *Proserpinaca palustris* L., an aquatic angiosperm, by photoperiod and other environmental factors.

Rutgers — the State University

BERNARD, John M. Lowland forests of the Cape May formation in southern New Jersey.

DAVIDSON, Donald William. The shrub and herbaceous vegetation of the upland forests of northern New Jersey.

SMITH, Calvin A. Shoot apices in the family Moraceae with a seasonal study of *Maclura pomifera* (Raf.) Schneid.

South Dakota State College

MYERS, Gerald A. The effects of gamma-irradiation on ascorbic acid content in *Raphanus sativus* L., the radish, and its resultant effect on the morphology growth of the plant.

State University of Iowa

SASTRY, K.S. Krishna. Studies on the physiology of fruit growth.

TRANKLE, Robert John. A comparative anatomical study of the xylem elements of ten species of Selaginella.

State University of New York, College of Forestry at Syracuse University

DeGROOT, Rodney C. Association of *Fomes pini* with weevil-killed leaders of eastern white pine.

The University of Tennessee

PRINGLE, James Scott. A systematic survey of the section Pneumonanthae of Gentiana in eastern North America.

ROESEL, Hilde Anne. Effects of light and gibberellic acid on elongation of intact wheat coleoptiles.

The University of Texas

BISCHOFF, Harry William. I. The soil algal flora of Enchanted Rock. II. *Thorea riekei* sp. nov. and related species.

BREHM, Bertram George. The distribution of alkaloids, free amino acids, flavonoids, and certain other phenolic compounds in *Baptisia leucophaea* nutt. var. *Laevecaulis* gray, and their taxonomic implications.

CUNNINGHAM, William Patrick. Structure and function of isolated plant mitochondria.

MATTOX, Karl Russell. The taxonomy of certain ulotrichacean algae.

NIXON, Elray S. The role of soil in the distribution of certain Texas species.

PEACOCK, John Talmer. Ecotypic differentiation in *Prosopis* (mesquite).

University of Toronto

BEST, Charles Alexander. Studies in the eastern North American native *Lilium* species.

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AIMAN, Charles Edwin. Imino acid syntheses based on the alkylation of acylaminomalonic esters.

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HEASLEY, Victor Lee. Part I. Studies on the synthesis of allylic diamines. Part II. A study on the rearrangements of allylic azides.

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MC DANIEL, Robert A. A study of the mechanism of the acid-catalyzed rearrangement of benzhydryl azides.

PARISEK, Charles B. Part I. Nucleophilic attack by butoxide ion on optically active methylethylphenylbenzylphosphonium iodide. Part II. The synthesis of organoboron compounds and oxidation studies of trialkylboranes.

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TESSLER, Martin M. A study of the influence of the inductive effect on the stability of tertiary carbonium ions.

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Université Laval

SINGH, Joginder. Studies on substituted azoxybenzenes.

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LAUFER, Allan Henry. Vacuum ultraviolet photochemistry of ethane at very low conversions.

MIZIANTY, Michael Francis. 3-phenylacetyl-indoles as precursors to the 2,3'-biindolyls.

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CHANG, Shu Pei. Synthesis and characterization of some divinyl comonomers and nuclear sulfonic acid cation exchange resins.

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- VON DER LINDE, Gert.** Growth, functions, and financial administration of private pension plans.
- WARDHANA, Ali.** Monetary problems of an underdeveloped economy, with special reference to Indonesia.
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- BALBACH, Anatol Berkman.** Demand for money: Clark Warburton's hypotheses reconsidered.
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- MORRISON, George R.** Liquidity preferences of commercial banks.
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- KIEFER, Dale L.** The significance of historical cost.
- Columbia University
- BOREHAM, Gordon F.** Changes in the financial structure of Canada: 1953-1958.
- CONSTANTACOPOULOS, George C.** Economic development of Greece in the postwar setting.
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- JOHNSON, Walter Livezey.** Comparability of structures of interest rates.
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- ANDREWS, Elaine Bernasek.** International and foreign bond flotations in London and the United States, 1860-1960.
- The University of Florida
- BROWN, James Earl.** Property taxation of public utilities in Virginia: assessment administration and practice.
- Georgetown University
- ALAMI, Mustapha M.** Economic planning and development in Morocco.
- FRANKENHOFF, S.J., Charles.** The ineffectiveness of flexible monetary policy in the United States.
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- GRUBBS, Clifton Madison.** Pricing highways: an input-output approach.
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- SNYDER, Wayne William.** Money in a developing economy: a case study of Pakistan 1953-1963.
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- NELSON, Clifford Mark.** An empirical study on the impact of capital budgeting in the fabricated structural steel industry.
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- ABNER, III, David.** A history of Negro legal reserve life insurance companies.
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- STINTON, John Edward.** A ratio analysis as a test of financial strength of United States property insurers.
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- TEIGEN, Robert Leslie.** Demand and supply functions for money in the United States: some structural estimates.
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- LOVEJOY, Robert Merton.** Alternative methods of financing the Jamaican budget.
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- ALLISON, Clara Louella.** A factor analytic study of a gross motor skill performance after five practice sessions.
- ASHLEY, Donald Philip.** A comparison of the reading progress of primary pupils taught in split sessions and regular sessions.
- DOAN, Sister Mary Rebecca.** Implications for education in the philosophy of Gabriel Marcel.
- EHRENBORG, John David.** The validation of a device for identification of industrial arts teaching success.
- EIMGREN, JR., G. Theodore.** The relationship of the vocational goals and aptitudes of junior college technical students to employment requirements.
- FIEMAN, Marvin Eugene.** The construction of a scale for measuring attitudes of prospective and supervising elementary school teachers toward handwriting.
- FODOR, John Theodore.** A comparative study of two approaches to health instruction at the college level.
- GOODMAN, Kenneth Sawyer.** A study of the preferential ranking of the traits and characteristics of children by selected groups of sub-collegiate teachers.
- HUNTER, Archibald Peter.** The reorientation of educational policy in South Africa since 1948.
- KRICH, Percy.** An experiment to compare two methods of teaching division of fractions.
- LELAND, Allen O..** An experiment in teaching concepts in division of fractions with auto instruction.
- MARGOLIN, Edythe.** Social status in kindergarten.
- O'DELL, Robert Doran.** A study of factors related to the transfer of junior college students to state college programs in industrial arts.
- POLLACH, Samuel.** Individual differences in the development of certain science concepts.
- STEINBERG, Warren Linnington.** A study of the Community Relations Conference of Southern California.
- STOTT, Sterling Stewart.** Interpersonal orientation as a function of belief content and structure.
- SUSSMAN, David Wolfe.** Arithmetic readiness of children entering kindergarten.
- WALSH, Huber Meloeny.** A teaching model for culture studies.
- WEINBERG, Carl.** Family background and the school adaptation of seventh grade pupils.
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- BESTE, Celestine A.** A critical appraisal of programmed learning in relationship to secondary school geometry.
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- DAELE, C.S.J., Sister M. Caroline.** The participation of the nonpublic schools and their teachers in the programs of the National Defense Education Act of 1958.
- DI BELLA, Edward Engel.** The dean of the American graduate professional school: his selection, role, and relationships.
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- BECK, Hugo Ervin.** The contributions of Henry Clinton Morrison: An educational administrator at work.
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- DOCKRELL, W. B.** Education, social class, and the development of ability.
- GILBERT, Edward Hugh.** The university's role in the improvement of secondary education as viewed by selected reference groups.
- HESLEP, Robert Durham.** The views of Jefferson and Dewey as bases for clarifying the role of education in an American democratic state.
- KAMAL, A. F. M. H. Ahmed.** Culture change and personality modification: a cross national study of acculturation.
- LARMEE, Roy Albert.** The relationships between certain national movements in education and selected independent secondary schools.
- LEE, Robert E.** The educational commitment of the American Public Library, 1833-1956.
- LEVINE, Daniel U.** The relation between attitudes concerning education and attitudes concerning government and society.
- PESHKIN, Alan.** Education in East Pakistan: A case study in planned change.
- SHARAFUDDIN, Abdullah Al-Muti.** Curriculum change in Pakistan with special reference to high school science education.
- STONE, Douglas Edward.** A methodological approach to the analysis of teacher behavior that reveals the stability of human characteristics.
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- DRESSEL, JR., Fred B.** An evaluation of selected personnel services offered to married students at Indiana University.
- EVANS, Earl Everett.** A study of higher education in Nigeria and its relationship to national goals.
- FREY, Barbara Ruth.** An analysis of the perceived functions of the elementary school principal 1921-1961.
- JERRY, Robert Howard.** The duties of a superintendent and the allocation of professional time by public school superintendents in Indiana.
- KRAUSS, Martin Luther.** A comparison between student evaluation of full-time and part-time faculty in University College, University of Louisville.
- LYONS, James Weeks.** A study of the administrative responsibilities, work environment, experience, and recommended curricular preparation of the college union director.
- MOHIT-MAHMOUDI, Kambiz.** The relationship between "authoritarianism" and attitudes toward educational television.
- MULLER, Leo C.** The functions, qualifications, and status of coordinator officer as viewed by college and university presidents.
- PRINCE, Dorothy Mae.** The position of the audio-visual communication specialist in the informal education programs of selected labor, government, business, and non-profit organizations.
- SIMON, Richard Malcolm.** Intensity of specific educational problems which selected presidents and academic deans considered to be of importance in the colleges and universities of Indiana and Iowa.
- STEWART, Wilber Eugene.** Factors involved in the withdrawal of teachers who held the same position in Indiana from 1951 to 1958.
- SUTTON, Bernard Francis.** Guidance personnel in Indiana public secondary schools.
- TANNER, JR., Fred W.** A study of Public Laws 874 and 815 in Indiana.
- WALLENFELDT, Evert Charles.** A state university president and the social psychology of meeting legislative and gubernatorial opposition: a case study of the manner in which Charles Richard Van Hise met opposition in Wisconsin in 1915.
- University of Kansas**
- BELL, James William.** Reorganization plans of selected county planning committees created by senate bill 400 and implications relating to future reorganization legislation.
- CURTIS, JR., Kenneth Leroi.** A study of the factors determining the non-entrance of eligible applicants at the University of Kansas, 1958-61.
- FICHTNER, Mervin A.** Two proposals for unified school district reorganization in a selected Kansas geographical area of Sedgwick and Harvey Counties.
- KELLY, William Leonard.** Beliefs and practices of administrators and musicians from selected midwestern cities concerning the importance and functions of music in the public schools.
- NELSON, Dale Gilbert.** Relationships between students' estimates of benefits derived from school and selected current expenditures in a representative sample of Kansas high schools holding membership in the North Central Association of Colleges and Secondary Schools.
- SCHMIDT, Ervin H.** A comparative study of the perceptions of editors and school superintendents regarding the status and improvement of newspaper coverage of the public schools in the daily newspapers of Kansas.
- STUCKY, Dean R.** An evaluation of state support for Kansas public elementary and secondary schools, 1960-1961.

WESNER, Gordon Eugene. A study of in-service education programs for secondary school teachers in selected large-city public school systems.

University of Kentucky

POWELL, James H. A study of the factors involved in the failure and subsequent success of a voted tax for school buildings in five selected counties in Kentucky.

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ROSENBERG, JR., MALCOLM FRANCIS. The Orleans Parish Public Schools under the superintendency of Nicholas Bauer.

WOFFORD, Thomas Bushrod. An evaluation of administrative practices in a state-wide vocational-technical curriculum laboratory.

Loyola University, Chicago

CLOUTHIER, Raymond Paul. An appraisal of guidance programs in selected small liberal arts colleges in Wisconsin.

PARTIN, Sister Mary Teresita. A study of the lay teacher in the Catholic elementary schools of the Galveston-Houston Diocese with the development of a handbook of policies.

SOLA, Anthony Thomas. The status of theory and practice of fiscal control in Wisconsin school districts.

VANDEMBERG, Eugene M. The changing objectives and philosophy of the American Secondary School Curriculum, 1893-1961.

University of Maryland

KOONS, Donald Zentz. A raw cost analysis of pupil services in the public schools of Maryland.

SHAFFNER, Robert Samuel. A study of the coordinator-of-instruction program in Anne Arundel County, Maryland.

University of Miami

COX, Blanche. Recommendations relative to the student personnel program of Dade County Junior College.

WILLCOX, Wanda Marie. A survey of the present state of public school adult elementary education in the United States and a formulation of programs for use in adult elementary education.

ZIMMERMAN, JR., William George. An analysis of selected aspects of the Master of Education program at the University of Miami.

The University of Michigan

BRUBACHER, John Wemple. An analysis of the decision-making process of school boards.

DAVIES, James Robert. The position of the chief business officials in the Michigan public schools.

HICKS, Fred W. Constitutional independence and the state university.

LUTZ, Robert George. Factors associated with short tenure of school superintendents in Michigan.

McCAIN, John Henry. A study of the supervisory behavior pattern of the supervising elementary school principal in selected elementary schools, Jefferson County, Alabama.

MORTON, Benjamin L. State and regional cooperative fund raising associations of private colleges and universities.

Michigan State University

APPEL, Paul Henry. A study of selected adminis-

trative principles as they may be applied in certain school districts in the state of Michigan.

BATES, Austin Francis. Availability and dissemination of research in school business affairs.

BERG, Arthur David. The determination of the discrimination and reliability indices of the *Educational Characteristics Criterion* with implications concerning educational cost-quality relationships.

BIELINSKI, W. Victor. Practices of Michigan community colleges in providing programs for adults.

BRADLEY, Wilma Nash. An analysis of selected cognitive and non-cognitive variables relating to a student's persistence in a major area of study at Michigan State University.

EARLY, William James. An evaluation and analysis of the extern program in educational administration at Michigan State University.

FOSTER, Larry Lee. A descriptive study, by residency and sex, of the freshman students for 1958 at Michigan State University on selected characteristics.

GLASS, Kenneth M. A comparative study of selected costs that condition decisions leading to rehabilitation or abandonment of school facilities.

KARIGER, Roger Hugh. The relationship of lane grouping to the socioeconomic status of the parents of seventh-grade pupils in three junior high schools.

KING, Horace Clifford. An analysis of educational-administrative-cultural aspects of the relationship between the University of the Ryukyus and Michigan State University.

ULLA, Basantkumar Parsam. Study of educational administration in the United States with implications for India.

RASMUSSEN, Gerald Raymond. A study of administrative organization for the improvement of instruction in the public schools of the state of Michigan, exclusive of the upper peninsula and the city of Detroit.

RYDER, Jack McBride. A study of personnel processes and policies with relation to utilization of teachers from the Negro minority group in certain Michigan public school districts.

SIEHR, Hugo Emil. Problems of new faculty members in community colleges.

STRY, Edward Joseph. A study of the differential provisions for the terminal and transfer students in selected Michigan community colleges.

WESTERLUND, Stuart Rudolph. The army general educational development program in the continental United States: a survey relative to principles and practices of administration at the army post level.

WOOD, Lewis Chapman. A study of tort liability in Michigan school districts.

University of Minnesota

GRANGER, Robert Lee. Administrative staffing for instructional program development and implementation in selected Minnesota schools.

MALONE, John William. Faculty participation in policy making in midwest Jesuit colleges and universities.

TOOMBS, Morley Preston. The control and support of public education in Rupert's Land and the Northwest Territories to 1905 and in Saskatchewan to 1960.

VANDER HORCK, Karl John. A comparative analysis of the equalizing effect of recent legislation on the financing of education in the state of Minnesota.

The University of Mississippi

FRYE, Orion Frederick. A study of the effects of the National Defense Education Act of 1958 on

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- the science programs of some selected high schools in the state of West Virginia.
- LEE, Billy Eugene.** Federal receipts and expenditures in Mississippi as related to education and other areas, 1952-1961.
- University of Missouri**
- BOYLES, Lyle Edwin.** A study of the school survey as an instrument for school administrators.
- CREASON, Fredrick Joseph.** Factors which affected the premium-loss ratio of fire and extended coverage insurance on Missouri public school buildings and contents.
- CROTTES, John Herbert.** A comparison and an analysis of the concepts of the role of the elementary school principal.
- INGLE, Marvin William.** A survey of educational and vocational plans of eleventh- and twelfth-grade students in proposed intermediate unit # 27 of Iowa and their implications for higher education.
- LIANG, Shang Yung.** Provincial financing of public education in Taiwan, China: an evaluation and a proposed plan.
- LIELKE, Edward Carl.** The preparation and professional activities of teachers in Missouri Synod schools of higher education.
- MONTGOMERY, Dan Eugene.** The status, problems, and official duties of top-level assistants to public secondary school principals in cities of less than 400,000 population in the state of Missouri.
- SHOOK, Donald Dean.** A study of accreditation and the secondary schools accredited by the north central association in Missouri.
- YOUNG, Charles Ray.** Factors associated with achievement and underachievement among intellectually superior boys.
- The University of Nebraska**
- BARTELS, Galen Bruce.** Criteria relating to the success and failure of candidates at the University of Nebraska in completing doctor of education degrees.
- FOSTER, Kenneth Leslie.** Educational services recommended for adequate intermediate administrative districts in Nebraska.
- FRAZER, Donald Wayne.** A study of parental attitudes toward the special education class for the mentally gifted sixth grade students in Atchison, Kansas.
- GEMMELL, Cecil Lynn.** Characteristics and practices of deans of boys and deans of girls in Seventh-Day Adventist boarding academies.
- GLEASON, James Martin.** The administrative responsibilities of the director of elementary education.
- HANSON, Leonard Everett.** A study of the value of a reading program in the secondary schools.
- HEGER, JR., Louis Fredrick.** A comparative study of pupil achievement under different organizational plans for seventh grades.
- HUTCHESON, David William.** State school plant services.
- KORSGAARD, Ross Paul.** A history of federal aid to education in Nebraska.
- KREBS, Richard Carl.** The impact of periods of socio-economic change on the curriculum of the Omaha public high schools.
- SHORT, Richard Rollin.** Administrative decision-making procedure as related to good secondary schools.
- TATE, Elizabeth Coppedge.** A study to determine the factors that influence the drop outs in the instrumental music program in selected elementary schools in Omaha, Nebraska.
- WILLIAMSON, Jesse James.** Teacher load in Nebraska junior and senior high schools.
- New York University**
- BURNS, Gerald Philip.** The role of the trustees in American colleges and universities.
- COHEN, Stanley Gerald.** Supervision of elementary school music in selected districts of New York City.
- HOOVER, W. Wendell.** Time utilization by elementary school teachers in city and village school districts of New York State.
- MANINGAS, Casimiro Eugenio.** The principal of the comprehensive high school: his educational qualifications and experience.
- RIDINGER, William Howard.** Principles and policies for the organization and administration of school-community recreation.
- ROONEY, Thomas George.** Critical requirements for the intern in educational administration.
- SINGER, Ira J.** The status and development of certain staff utilization practices in the secondary schools of New York, Illinois and California.
- SKINNER, Donald William.** Educational and occupational backgrounds and their relationships to professional administrative responsibilities.
- YAFFA, Dan.** Problems concerning teacher committees in secondary schools.
- The University of North Carolina at Chapel Hill**
- FIELDS, JR., Wilbert Osborne.** A critical study of the structure and operation of school districts in North Carolina county units.
- HULON, Harold Gibbs.** Liberal-conservative attitudes of public school personnel in North Carolina.
- PEEPLES, JR., Paul Alvah.** A descriptive analysis of an experimental student counseling program conducted in a residence hall for men at the University of North Carolina, Chapel Hill, N. C.
- SHEAROUSE, Nelson LeRoy.** A study of factors determining the central office personnel employed in six school systems in southern cities of 100,000 to 200,000 population with proposed guidelines for staffing.
- University of North Dakota**
- BRUNSON, Quinn.** A study of the requirements for safety in pupil transportation: review of practices in the United States and a recommended structure for North Dakota.
- HAMMERLIK, Gerald Francis.** Merit factors in the awarding of gift scholarships.
- WAX, Joseph.** The financial equalization of educational opportunities in North Dakota.
- North Texas State University**
- COOK, Kenneth Oscar.** The relationship between certain school practices and dropout rates of the high schools of Arkansas.
- DeVINEY, Robert Dawson.** An evaluation of closed-circuit television observation for students taking certain courses in elementary education.
- GLEASON, Dale Harvey.** Factors associated with success in the doctor of education program at North Texas State University.
- WOTHERSPOON, Clark David.** The relationship between selected criteria and actual practices of counselors and visiting teachers in a metropolitan area.
- Northwestern University**
- CANAR, Donald Arthur.** An analysis of ten significant forces related to the development and organization of junior colleges.
- The Ohio State University**
- KYLE, Robert Wellington.** A study of business education in the secondary schools of Lake County, Indiana, with implications for the improvement of instruction.
- LEHMAN, James Louis.** Pupil mobility and its relationship to age, intelligence quotients and achievement.
- MIEDEMA, Donald J.** Practices and problems related to articulation between the eighth and ninth grades in northern Illinois secondary and unit school districts.
- The University of Oklahoma**
- BRAUSE, Dorsey Wayland.** Identification of major factors affecting the dismissal of school superintendents.
- HAKES, Harold Lee.** A comparative study of five major patterns of residence hall administration in five large public universities.
- HOWE, John Roger.** A critical analysis of the planning, directing, and appraisal of school management institute seminars.
- LAW, Lillard Eugene.** The identification of informal groups and informal group leadership in selected schools in Ohio.
- LUCAS, Robert Elwood.** Decisional determinants of the degree of delegation by the chief school administrator.
- MILLS, Chester Otto.** Academic status of high school distributive education cooperative students.
- MORAN, Forrest Lee.** The identification of problems in developing programs of instructional improvement as evidenced by varying role expectancies of the director of instruction.
- SINHA, Radha.** Developing principles and practices of educational administration in India.
- SMITTLE, George Bryan.** A study of the perceptions of teacher involvement in critical and routine decisions in selected schools of Ohio.
- SOLLARS, Ralph Damon.** The relationship of size of elementary schools to operational cost and program quality.
- SOUTHARD, Thomas Berton.** Relationships of school board practices to tort liability immunity in selected Ohio schools.
- TECKMAN, Charles Edward.** The influence of state departments and regional accrediting associations on secondary-school experimentation.
- STATON, Jon Tom.** The relationship of selected factors to academic success for beginning freshmen.
- TAYLOR, James Lewis.** The role of the state supported junior colleges of Oklahoma.

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Oklahoma State University

BLANKENSHIP, Winson Calkin. Attitudes of head librarians toward some aspects of college librarianship.

HAYES, Larry Kilburn. The relationship between individual values, viewpoint of education's task, and satisfaction with local schools.

PINGLETON, George Gene. Cognitive patterns of community groups concerning the tasks of the elementary school.

POE, Robert LeRoy. The construction of a mathematical model of educational administration decision-making.

University of Oregon

BECKEN, Elliott D. Thirty years in a school superintendency: a case study in administrative leadership.

TRIMBLE, Aubrey Curtis. A study of school bus specifications, purchasing practices, and accounting procedures as related to pupil transportation in Oregon.

Oregon State University

HAMPTON, Earl. The role of the principal in the modern junior high school guidance program.

The Pennsylvania State University

BERRY, Henry Wadsworth. A guide for the development of a program of education for educable mentally retarded children in South Carolina.

BRUMBAUGH, Robert Books. A test of the effectiveness of certain concepts from reference group theory in predicting teacher-attitude toward school district reorganization.

EVANS, Warren Donald. Educational expenditures within liberal arts colleges and colleges maintained by members of the Church of Christ.

GATSKI, Henry Joseph. A comparison of four formulae for rating pupil capacity of school buildings in selected secondary schools in the state of Pennsylvania.

GIUSTI, Joseph Paul. Prediction of academic success in a college of education based on high school curriculum experiences.

HENLY, Harry Richard. The role of the senior high school principal in the guidance program.

HILLKIRK, John Martin. Action research as applied in curriculum development, grades K - 12, a case study.

KOSOLOSKI, JR., John E. A quantitative analysis of Pennsylvania public school utilization of the provisions of title III of the National Defense Education Act of 1958.

KRAYBILL, Wilbur Kready. The relationship of counselor, principal, and teacher role consensus and the quality of senior high school guidance services.

LONG, JR., John Adam. Some aspects of an oral-visual presentation of an achievement test to educable, mentally retarded pupils.

MATCH, Elmer. A comparison and analysis of the 1960-61 instructional costs for educable mentally handicapped children in county- and district-operated programs in Pennsylvania.

MATYAS, Rudolph Peter. An analysis of secondary school programs for educable mentally retarded children in public schools of Pennsylvania.

O'BRIAN, John Lindsay. An evaluation of the professorial internship in educational administration.

PRICHARD, Neal Wayne. Selected factors affecting school administrators' and school board members' attitudes toward vocational trade and industrial education in Pennsylvania.

SCHULER, Nevin Deily. The effect of the administration of two Federal laws on secondary mathematics in selected states.

SHARKAN, William Walter. An evaluation of the team organization plan of staff utilization in relationship to the educational development of students in the junior high schools of Allentown, Pennsylvania.

STONE, Paul LeRoy. Benefits and employment conditions offered by Pennsylvania public schools and their effects upon securing and retaining teachers.

TREON, Raymond Samuel. The effect of the administrative procedures of postponed and non-postponed admission upon personality and achievement.

VANNAN, Donald Antrim. Methods of identifying community power structures utilized by chief school administrators in selected school districts of Pennsylvania.

WILEY, Robert William. A comparative evaluation of the roles of ministers, school counselors, parents and others in assisting youth with life-work selection problems.

University of Pittsburgh

ACKELSON, JR., James Stuart. Opinions of students regarding the graduate program of the school of education of the University of Pittsburgh.

ARNOLD, Harold Ramble. A study of procedures and practices employed in the development of bid specifications for supplies and equipment in selected school districts.

CLARK, Charles Paul. A study of critical requirements of the public secondary principalship in Pennsylvania.

DAVIDSON, Eero W. Comparison of the school district authority method and state public school building authority method of financing school building construction.

JACK, Howard Forsythe. The position and duties of curriculum personnel in selected public school districts in Pennsylvania.

JORDAN, James Francis. Processes of delegation in selected school systems.

PORTER, James Strickler. Court interpretation of tax cases involving administrative and faculty residences in higher education.

SAM, Norman Harold. Growth in the written language development of intermediate grade children.

SMODIC, William J. Court interpretation in the several states of permissive legislation relative to the use of school property for non-school use.

VITO, Joseph Louis. A comparative study of magazine articles on pre-college education published for layman consumption from 1950-1960.

University of Portland

CRAIG, William Lloyd. An evaluation of the high school club program in Portland, Oregon.

JOHNSON, Lynn Nelson. An experiment to determine the effect of selected materials on cursive handwriting performance upon completion of grade three.

JONES, Charles Longfellow. A study of the effects of fund supported projects on the programs of the Portland public schools from 1952 to 1962.

MALO, Roy Octave. An evaluation of a reading improvement program for non-clinical students.

Purdue University

HUGHES, Teddie Byron. The relationship of selected administrative concepts and practices to different variables used to classify school corporations.

MILLER, Richard Dwight. Concepts and judgments of selected educational administrators related to junior high school practices.

ROBINSON, Eugene Edwin. The decision-making process of a university readmissions committee.

Rutgers the State University

ALMOND, John F. An appraisal of the responsiveness of selected state aid programs for education in relation to changes caused by socio-economic factors in selected New Jersey school districts.

LAVENBURG, Fredric M. An analysis of articulation problems with implications for administrative action.

St. John's University

BROWNE, Richard Walford Hugh. Selecting the high school assistant principal-criteria, philosophies and practices.

HALL, Reina Francis. An analysis of aspects of selected mental health programs in public health nursing preparation.

KEATING, Richard Joseph. An evaluation of the quality of preparation of beginning teachers of English in public secondary schools within the Eight-State Reciprocity Compact.

MENDEL, R.S.M., Sister Mary Dorothy. An analysis of the relationship of Christian social living to selected administrative procedures.

St. Louis University

GALLAGHER, S.J., Reverend Eugene Francis. Provision for education practices and facilities in an era of urban renewal.

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CASE, Truman Neal. Curricular changes made since the school year 1956-57 in three-year junior high schools in California.

COOGAN, Dale Roger. Reporting pupil progress: an analysis of the relationship between the administrative methods used for change and the degree of parental understanding.

DRAKE, E. Maylon. Employment of Negro teachers.

GAFFEY, JR., William Tracy. The recruitment, selection, and induction of classified personnel in unified school districts of Los Angeles County.

GARRITY, Rodman Fox. An analysis of the role of the personnel administrator in the California public schools.

HAWKINS, Edward Eugene. Identification of outstanding elementary teachers by subjective and objective means.

JONES, Lloyd George. A comparison and analysis of policies and related practices in grouping to provide for individual differences in selected school districts of Southern California.

KARAYAN, Robert Harry. Analysis of the cost of warehousing in selected unified school districts.

KNIGHT, Kenneth Nathan. Predictors of teaching success in the Los Angeles city schools.

LEVICH, Harlan Norton. The basic course in secondary school administration.

MALM, Ivan Carl. Written policies and rules governing junior college student conduct and discipline.

McGREGOR, Arthur Pardoe. Special income tax problems of teachers.

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- PARKS, David. A case study of the effects of unification in the Orange Unified District.
- PAUL, Dale. Legal requirements affecting elementary and secondary curriculum and instruction in California.
- PAX, Robert. An analysis of junior college administrative organization.
- PEARSON, Vern. Supervision of pupils in elementary schools.
- ROEMMICH, Otto. Planning, design, and use of large group instructional units.
- SEATON, Robert. Legal requirements affecting elementary curriculum and instruction in California.
- STEINZOR, Benjamin. The role of the board of control in higher education.
- WOODFIN, Charles. Accounting procedures for California unified school districts.

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- ANTLEY, Elizabeth M. Creativity in educational administration.
- BUTLER, Walter. An evaluation of the school-public relations in selected secondary schools in Mississippi.
- KEEBLER, Eugene M. A study of the combination office of dean-registrar in higher education.
- MARTIN, Charles E. The relationship of certain social and economic characteristics to local initiative in the financial support of education in Mississippi.
- OSBORN, Morris. The effect of expenditure per pupil and size on the quality of education in the secondary schools of Mississippi.
- PENDARVIS, Sylvester Tucker. A study of the relationship between high school grades and the desire for scholastic achievement.
- SPINKS, JR., Samuel Luther. A survey of presently existing student personnel service in Mississippi public junior colleges, the attitudes of presidents toward these services, and the allocation of responsibility for these services.
- THOMPSON, Charles E. The appraisal of special procedures for below average students in a basic technical course, United States Air Force.
- THOMPSON, Charles Lamar. A statistical analysis of teachers' and non-teaching parents' attitudes toward child rearing practices.
- WELKER, JR., Latney Conrad. A study of interrelationships in arithmetical problem solving.
- WRIGHT, Charles V. A follow-up study of Mississippi junior college graduates.

Stanford University

- CALL, John Reed. Perceptions of teaching efficiency as a function of interpersonal interaction.
- CHANG, Alvin Kauila. Role norms to guide administrator selection and training in Hawaii.
- DAVIS, Donald Lee. Taxpaying ability: a study of the relationship between wealth and income in California counties.
- GRANT, Robert Truman. The effectiveness of structured parent-teacher conferences on parental attitudes toward schools.
- HAMMER, Carl Monroe. A study of administrative salary policy as perceived by school administrators, teachers, and board members.
- HANSON, Nels William. Economy of scale in education: an analysis of the relationship between district size and unit costs in the public schools.
- HAVENS, Nels Hansen. The relationships of organizational aspects and personal characteristics to teacher job satisfaction.
- KIRKPATRICK, Robert Newton. The relationship of job satisfaction to perceived staff promotional policies.

State University of Iowa

- NIEPOTH, Edward William. The professional maturity of recreation administrators.
- SANFORD, Frank Dee. Variations in costs among attendance centers in a large high school district: a case study. [Dissertation withheld from distribution until June 1964.]
- THOMAS, James Alan. Efficiency in education: a study of the relationship between selected inputs and mean test scores in a sample of senior high schools.
- WAMPLER, Marvin B. A method of predicting educational expenditures.
- WILLEY, David Augustus. A comparative study of perceptions of and expectations for the role of the county superintendent in California.

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- BLOME, Arvin Chris. A study of the identification of community power structure and influence on public school issues.
- FREY, Sherman Henry. A descriptive study of the problems and procedures of articulation between the junior and senior high schools accredited by the North Central Association of Colleges and Secondary Schools in public school systems organized on a 6-6 or 6-3-3 basis.
- GRINSTEAD, Kenneth Lamar. Financing capital outlay in selected reorganized Iowa school districts.
- KLAHN, Richard Phillip. An analysis of patterns of communication of high school principals in selected school systems.
- McGRATH, J. H. A study of selected characteristics of urban-rural community school districts in Iowa.

- MOON, Orval Duane. A survey study of some administrative relationships in selected Quaker colleges.

- PECCOLO, Charles Matt. The effect of thermal environment on learning.

State University of New York at Albany

- CONWAY, James Arthur. Problem-solving in small groups as a function of "open" and "closed" individual belief systems: some implications for development of administrative theory.

State University of New York at Buffalo

- GIZINSKI, Joseph S. A study of the effects of enrollment and district organization on the performance of educational, administrative functions in a number of secondary schools in New York state.

- LORENZETTI, Anthony. Behavior goals of general education and the effectiveness of schools in meeting those goals; a study of the perception of principals of public and parochial schools.

- PIVETZ, Mildred Ellen. The relationship between teacher's attitudes and effectiveness in the classroom.

Syracuse University

- ALAMI, Adawia. A study of the educational problems in Jordan as a basis for the establishment of a national in-school radio service.

Temple University

- KOENING, Adolph J. The budget-making process used by school superintendents and school budget elections in selected New Jersey school districts.

- SEARLE, Herbert Anderson. A role study of decision-making reported by personnel carrying titles as assistant administrative and supervisory functionaries in the district superintendency of education in selected New Jersey school districts.

- WINANS, Seymour David. Development and application of a technique for forecasting the need for teachers in New Jersey public secondary schools.

The University of Tennessee

- ACUFF, William T. A study of the visual environment in selected classrooms.
- BEDELL, JR., Fred. Identification and analysis of selected administrative problems confronting public school physical education directors.
- CHAMBERS, James Augustus. A study of attitudes and feelings toward windowless classrooms.
- ELLER, Edward Bobbitt. An analysis of personal and professional characteristics of Tennessee public school superintendents, 1940-60.
- HOOKER, John Norman. A study of standardized testing programs in selected high schools of Tennessee.
- JACKSON, Thomas Alton. Technical job opportunities for negroes in the Atlanta metropolitan area.
- JOHNSON, Allen Monroe. Articulation in selected junior high schools in North Carolina.
- JOHNSON, Bettye Underwood. A study of color in the classroom environment.
- MORRISON, JR., Marshall Lee. Issues vital to negroes in Tennessee.
- ROADEN, Ova Paul. The essential elements of educational specifications for school plant facilities.
- ROSS, Charles L. An experiment in the reorganization of instruction in the first grade.

The University of Texas

- ARNAUD, Elie Earl. Development of an instrument for reporting teacher competence as a director of learning.
- BATES, Kenneth Oliver. The potential of retired military personnel as a source of junior college teachers.
- CATHEY, Rodney Dean. An analysis of inequalities in local school district finance in selected Texas school districts in 1960-1961.
- HENDRIX, Vernon Lee. A critical analysis of the relationships between administrative policies and procedures and certain faculty characteristics.
- HORTON, JR., Henry Allan. An evaluation of the effectiveness of junior college terminal curricula.
- HUNT, David Glenn. The development of enrollment projection and prediction methods for Texas public junior colleges.
- PIKE, Walter Lee. An analysis of the relationship of current expenditure, enrollment, and expenditure per student to certain variables associated with educational quality for Texas public junior colleges, 1959-62.
- POSEY, JR., Ellis Benton. State education agency control of public school expenditures in selected foundation program states.

- RICHARDSON, JR., Richard Colby. Staff morale: an investigation involving the development and testing of a differential morale attitude inventory.

- STEWART, JR., Charles Allen. Prediction of academic success in selected United States Army Medical Field Service School courses.

- WEYNAND, Jerome Francis. The role of public junior colleges in Texas as viewed by their presidents and board members.

University of Toledo

- PLESSNER, Shirley Myers. The relationship of first grade entrance age to selected factors of the public school experience.

University of Tulsa

- DENNIS, Margaret. Relationships between social acceptance and certain other variables with a group of atypical children.

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University of Utah

- CROSS, Gene B. A transportation survey and feasibility study of automotive transportation for the University of Utah.
- HENRETTY, Thomas A. A history of school employees' retirement systems in Utah.
- JACKMAN, H. LaMar. A historical cost analysis survey of three buildings in the granite school district.
- LARSEN, John Anderson. The introduction of closed circuit television in the Weber School District.
- SAUNDERS, Ethel Harnden. Rehabilitation workshop on nursing home care.
- WING, Sherman William. A study in changes in administrative policy in Provo school district since consolidation in 1890.

Utah State University

- JEFFS, George Aaron. A comparison of aspiration levels of students in ability-grouped and randomly-grouped schools.
- LOWE, Calvin Dean. The need for and ability to support a program of cooperative vocational business education in the Salt Lake City high schools.
- MANNING, Melvin Nephi. A comparison of under-achievers and normal achievers at the upper elementary and seventh grade level.
- PAGENKOPF, Victor E. An analysis of professional laboratory experiences provided for prospective teachers in selective teacher education institutions.
- RICHARDS, Don K. An analysis of class size teaching load, and instructional salary costs in Utah State supported collegiate institutions of higher education.
- SEAL, Glenn T. An analysis of the procedures and practices in the business education curriculum of the secondary schools of Utah.
- SPURRIER, Joseph Howard. History of school music in the Hawaiian Islands to 1950.

University of Virginia

- SEAWELL, William Hunter. Bases of an in-service preparation program for school superintendents in Virginia.

Washington State University

- DIETRICH, Eldon John. An analysis of the practices of interscholastic activity associations in the United States.
- HANNAN, Cecil J. An evaluation of the effectiveness of certain means of informing Washington education association members about major association projects.
- LINDBLOOM, Melvin Roger. An analysis of the basic financial support program for the common schools in the state of Washington from 1945 through 1961.
- PALMBERG, Walter Henry. The feasibility of establishing an area community college in Umatilla and Morrow Counties in Oregon.
- STRAIT, Leland Charles. Factors contributing to declining enrollments in the College of Agriculture at Washington State University.

Washington University

- BAHN, Lorene Anna. Principles of educational administration based upon the writings of John Dewey.
- KEENE, Roland. Operational freedom in complex organizations.
- LUTZ, Frank Wenzel. Social systems and school

districts: a study of the interactions and sentiments of a school board.

MOELLER, Gerald Herbert. The relationship between bureaucracy in school system organization and teachers' sense of power.

University of Washington

- PORTER, Robert Dickey. A personnel survey of 1105 foreign students at the University of Washington.

Wayne State University

- BAJWA, Ranjit Singh. An inquiry into the practicability of a particular modern American educational method in Indian primary and secondary schools.

CORBACHO, Henry Francis. An analysis of the administrative organization of selected system instructional materials center programs.

DACHOFF, Dacho. Purposes, objectives, and recommendations for the improvement of the non-specialist music education program at Ferris Institute.

DAVIS, Harold Seaton. The effect of team teaching on teachers.

HELFIRICH, John Edward. A descriptive study of certain science learnings known by entering kindergarten children.

HUMBERT, JR., Herbert E. An analysis of the Michigan Workmen's Compensation Laws with recommended changes as they apply to school districts.

LARKIN, Lewis Barber. Field work experiences prior to student teaching.

MONACEL, Louis David. The effects of planned educational facilities upon curriculum experiences and related attitudes and aspirations of teachers, pupils, and parents in selected urban elementary schools.

SAGE, Eddie Eugene. An exploratory study of factors in quantitative problem-solving as revealed by second grade children.

SERVETTER, Leonard N. Livonia, Michigan: an historical study whose findings have been used in the preparation of a social studies textbook having a middle elementary grade reading level as determined by the Spache readability formula.

YOUNG, William Francis. Perceptions of line administrators, staff administrators, members of the Dearborn Board of Education, and presidents of parent organizations relevant to the comparative effectiveness of the area administrator plan in the Dearborn public school system.

Western Reserve University

COWELL, George Joseph. Personnel services at Bowling Green State University, 1959-1960.

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SIMMONS, John Stephen. Comparison of a theoretically sound reading program with current practices of secondary schools in the upper midwest.

WEBB, Henry Charles. An investigation of teacher characteristics and educational film utilization in three Minnesota urban public school systems.

University of Missouri

GROSLAND, August J. The content of art courses in high schools of the United States.

PIERSON, David Wayne. The ability of high school seniors to identify and apply biological principles in problem-solving situations.

SMITH, Kenneth Joe. A survey of seventh and eighth grade reading programs in AAA Missouri public schools.

WARNER, James Claude. Employment opportunities and training needs for skilled workers in the state of Missouri with projections through 1970.

The University of Nebraska

WEBER, Delbert Dean. A comparison of the educational ideas of James Bryant Conant and Robert Maynard Hutchins.

New York University

BLACKBURN, Jack Earl. A suggested guide to learning activities for selected problem areas of a junior high school core program.

CLEARY, Joseph Bernard. The development and construction of a textbook-workbook in transcription English, style, and procedures.

DARDEN, JR., Joseph Samuel. A study of placement of sex education in the curricula of selected high schools in Georgia.

DONAHUE, George Thomas. An evaluative analysis of ten years' growth in an elementary school district with recommendations for improvement of instruction and pupil personnel services.

GELLER, Molly S. The measurement of the effectiveness of a teaching machine program in an area of college chemistry.

EDUCATION

- GOLOMB, Arthur. A guide to plastics in the industrial arts program of the academic high schools of New York City.
- GORN, Janice Leonora. John Locke's educational theory and some evidences thereof in Pennsylvania 1682-1755.
- GROSS, Irwin M. Teaching art through the television medium.
- HILL, Casper William. A syllabus of a course in general biology for the non-academic student in high school.
- KAPLAN, Eugene Herbert. Empiricism as a function of training in the use of the scientific method.
- KESSLER, Harry Louis. The development of a guidebook for beginning teachers in four junior high schools in Brooklyn, New York.
- LIEBLICH, Malcolm. Effectiveness of methods of teaching foreign language sounds.
- LUMINATI, Charles Edward. An evaluation of the audio visual instructional materials program in the public schools of Great Neck, New York.
- MACRI, Alfred Roger. A comparison of the effectiveness of two teaching methods on the competence of college students to understand atomic structure in a one semester course in general physical science.
- MARANTZ, Kenneth A. The elementary school art museum program in New York State.
- MASSA, Nicholas Francis. An experimental investigation of human relations classes in the sixth grade.
- MEISELMAN, Max Sidney. A comparison of two reading programs for retarded readers.
- PASSY, Robert Albert. How do cuisenaire materials in a modified elementary mathematics program affect the mathematical reasoning and computational skill of third-grade children?
- ROSE, Arlene Blackburn. Administrative patterns used in programs for educable mentally retarded children in public elementary schools in the state of New Jersey.
- SILVERSTEIN, Alvin. The effectiveness of student-constructed three-dimensional models in the teaching of college general biology.
- WESTERBERG, Helen Elizabeth. Foundations for a manual for teaching health in the YMCA in the United States.
- WIDMER, Emmy Louise. An analysis of research concerning children and its relationship to the kindergarten program.

North Texas State University

- JACKSON, Harold Franklin. The effectiveness of using filmed courses in physics and chemistry in addition to the traditional lecture-laboratory courses in high school.
- JOHNSON, Margaret Higgins. The effects of skill-builder controlled reader training in facilitating skill development in college typewriting.

The Ohio State University

- BROCKMAN, Harold William. A critical study of the use of the terms "necessary conditions" and "sufficient conditions" in the teaching of mathematics.
- CHARONCHAI, Ruang. Industrial arts in the secondary schools of Thailand.
- CIANCIOLO, Patricia Jean. Criteria for the use of trade books in the elementary school program.
- COUPLAND, Joe. Importance of units of instruction in the high school vocational agriculture curriculum.
- JORDAN, Joseph William. J. D. Salinger as a writer of fiction for students in senior high school.

MONTAGUE, Earl John. Using the college chemistry laboratory to develop an understanding of problem solving in science.

- SLESNICK, Irwin Leonard. The effectiveness of a unified science in the high school curriculum.
- WELLMAN, Robert Roy. Tradition and education: A study in understanding.

Oklahoma State University

- GOFF, Gerald Kenneth. N factorable or prime.
- RAY, Darrel Dean. A statistical examination of immediate gains and retained gains of students in the Oklahoma State University reading improvement program.

Oregon State University

- PERKINS, JR., Edward A. The effectiveness of controlled reading-rate practice techniques in the development of speed and accuracy in second-quarter college typewriting.

University of the Pacific

- PEAIRS, Bev Fassett. A comparative analysis of the function of art in urban schools of Mexico and the United States of America.

The Pennsylvania State University

- FREED, Donald Wayne. Variables in self-instruction materials designed to teach the operation of audio-visual equipment.
- GRINER, Ned Houston. Implications for art education of socioeconomic factors influencing personal preferences in respect to utilitarian objects.
- GROVES, William Theodore. A comparison of the effectiveness of two counseling procedures with selected sixth graders.
- HEIMER, Ralph Tinnell. The preparation of a program in contemporary algebra and a study of its effectiveness for group instruction under paced conditions.

- KOBLE, Ronald Lamar. A comparison of individual-oriented and group-oriented learning experiences in industrial arts.

- MAHAN, Luther Alvin. The effect of problem-solving and lecture-discussion methods of teaching general science in developing student growth in basic understandings, problem-solving skills, attitudes, interests, and personal adjustment.

- MUNSTONE, John Christopher. The effects of variables in instructional television on acquisition of information and attitudes.

- RICH, Owen Sterling. A study of comparative effectiveness and acceptance of eidophor large screen television for college level instruction.

- ROBERTSON, James Everett. The effectiveness of a selected set of books in the study of a unit in twelfth grade American History.

- STICKELL, David White. A critical review of the methodology and results of research comparing televised and face-to-face instruction.

University of Pittsburgh

- BURKHART, Thomas A. A comparison of two methods of teaching and two methods of testing in spelling.
- GREGG, William J. Supervisory practices employed in selected secondary schools of Pennsylvania.
- GRELL, Lewis Adam. Comparative efficiency and effectiveness of the teaching of spelling by use of a programmed instruction method and a conventional textbook method.

- HAWTHORNE, Leotta Caldwell. Study of reading programs in the secondary schools of Pennsylvania.

- LEFFINGWELL, Elsie Lucille. A comparison of two methods of teaching an inservice training program in English fundamentals.

- SLUSER, Theodore F. A comparative study in the division of fractions in which an explanation of the reciprocal principle is the experimental factor.

- VERRY, Dana Hedrick. The effect of a reading program on selected office practice skills.

St. Louis University

- COLLINS, Hardin Ambrose. Success and failure in the vocational rehabilitation of the cerebral palsied.

- DYE, O.S.U., Sister Mary Elizabeth. An inquiry into creativity and its nurturing climate: an exploratory study.

- KLINE, Rosemary Elizabeth. A longitudinal study of effectiveness of the track plan in the secondary schools of a metropolitan community.

- McGANNON, S.J., Reverend John Barry. A study of patterns in the teaching of philosophy and theology in American Jesuit colleges and universities, 1960-61.

University of Southern California

- GREENBLATT, Edward Leonard. An exploratory study of the development of selected generalizations in social studies.

- JONES, Hazel James. Teacher understanding of evaluation of pupil progress.

- LELAND, Robert Deyo. Grouping practices providing differentiated education in California junior high schools.

Stanford University

- FARRAR, Charles Roberts. Map skills and understandings in upper elementary school social studies.

- NORRIS, Stanley. Views on science education in foundation-supported literature.

- SEBESTA, Sam Leaton. Artificial orthography as a transitional device in first-grade reading instruction.

- THOMSON, Scott Dayton. An analysis of achievement outcomes: team teaching and traditional classes.

State University of Iowa

- LOWRY, Betty Lucille. A survey of the knowledge of social studies concepts possessed by second grade children previous to the time these concepts are taught in the social studies lessons.

- LUDWIG, Merlin Albert. Current practices and problems in scheduling cocurricular activities in public secondary schools in the Midwest.

- RIEDESEL, Clark Alan. Procedures for improving verbal problem-solving ability in arithmetic.

- UHLHORN, Kenneth Wayne. The preparation, use, and application of a science experience inventory.

- ELLIS, JR., Upshur Berkley. The initiation of development reading programs in the junior high schools of Bucks County, Pennsylvania.

The University of Texas

- FELDER, Bernice Dell. Characteristics of independent study practices in colleges and universities of the United States.

DOCTORAL DISSERTATIONS 1962-1963

University of Utah

- ANDERSON, Joseph Bryant. Creative enrichment for mathematics instruction.
- BRITTON, Philip Lee. Teaching basic operations in arithmetic.
- BURNINGHAM, Rulon. Pupil and parent reactions to types of homework.
- BUTLER, Eldren Lamar. An evaluation of remedial reading progress of sixth grade students in Davis County as shown by standardized tests.
- CURTIS, Hal Holbrook. A survey of the school facilities for the speech classroom program in the public senior high schools of Salt Lake and Davis Counties, Utah.
- DANSIE, Jay Bone. A survey of teacher usage of commercial and educational television.
- FIREBAUGH, Douglas Bert. Supplementary methods and materials for the high school science teacher.
- JOHNSON, Milton R. Teaching spelling by tape recorder.
- LIEN, James Frederick. The inductive method in junior high school physical science.

University of Virginia

- CLARK, Marion Elmo. A critical analysis of the objectives and content of mathematics for liberal education at the college level.
- DUTTON, Sherman Sumpter. An experimental study in the programming of science instruction for fourth grade.
- NOXON, Charles Jay. The social conscience goal and instructional procedures in the basic college geography course.
- PIKAART, III, Leonard. A factor analytic study of success in programmed textbook instruction in elementary school arithmetic.
- SANDBERG, John Hilmer. Introduction to the social sciences: an independent study course for gifted high school students.
- TURNER, Lewis Orville. A study of foreign language instruction in the public elementary schools of Virginia, 1959-60.
- WESSION, James Burton. An experimental evaluation of selected techniques for employing programmed textbook materials in elementary school arithmetic.

Washington State University

- BAYLESS, JR., Benoyd Stephen. Analysis of the relationships of different amounts of repetition within a program for automated teaching.
- BROADHEAD, William Ray. A study of the use of simulated materials as a method of instruction in educational administration.
- CONDIT, Colin Davis. Relationships between practice teachers' drawings of a teacher at work and performance ratings by pupils, supervising teachers, and college supervisors.
- LEFSTAD, Dana Julian. An analysis of the junior college program in mathematics for general education.
- STANTON, Fred Elbert. Effectiveness of a programmed text on the retention of English grammar at the ninth grade level.
- WARDIAN, Jeanne Foster. An experiment concerning the effectiveness of programmed learning for use in teaching the fundamentals of music.

University of Washington

- KELSEY, Ian Bruce. A comparative study of values of students attending the University of British Columbia in 1963 as measured by the Allport-Vernon test for personal values.

Wayne State University

- BABEL, Simon Edward. Evaluation of certain approaches to curriculum development used in the Dearborn Public Elementary Schools with special reference to their application to improvement of the arithmetic curriculum.
- BREEDLOVE, Charles Berryman. An appraisal of team teaching in high school chemistry.

Western Reserve University

- IRWIN, Martha Ellen. Children's literature programs in elementary language arts curriculum.

The University of Wisconsin

- BERNERT, Roman Anthony. A study of the responses of Jesuit educators in theory and practice to the transformation of curricular patterns in popular secondary education between 1880 and 1920.

- BROWN, Bob Burton. The relationship of experimentalism to classroom practices.

- FREDRICKSON, Ronald Harold. Specific practices used by teachers in the education of superior high school students.

- LIDSTER, Echo Lenore Ruth. An analysis of certain educational and socio-economic factors as they relate to the nature and number of 4-H projects selected and the project progression shown by 4-H club members at grades one, six, and nine in ten Wisconsin communities.

- LINDSTEDT, Sidney Axel. Changes in patterns of thinking produced by a specific problem solving approach in elementary arithmetic.

- NELSON, Randolph James. Relationships of reported television viewing to selected characteristics reported by superior high school students.

- WHITE, Robert William. The relative effectiveness of a team teaching method in high school biology instruction.

- ZAROUR, George Ibrahim. Comparative effectiveness of teacher-described versus discussion-type demonstrations in high school chemistry.

ENGINEERING

General

University of California, Berkeley

- BARTAKKE, Manohar Nathubhai. Mechanics of wood-cutting.
- HAAS, Laird Kenneth Semmel. Fast-wave amplification using a multiflexed electron stream.
- HICKMAN, Roy Scott. The influence of shock wave-boundary layer interaction on heat transfer to an axisymmetric body.
- JAFFE, Nissen Asher. The effects of stress and recovery on creep of high purity polycrystalline aluminum at intermediate temperatures.
- SHAKED, Hagai. Diffusion of xenon in uranium monocarbide.
- STUDT, Perry Louis. Mechanism of gaseous permeation through glass, single-crystal silicon and germanium, and stress-enhanced gaseous permeation through alumina bodies.
- WAZZAN, Ahmed Rassem. Analysis of enhanced diffusivity in nickel.

University of California, Davis

- BRUTSAERT, Wilfried Hendrik. The propagation of elastic waves in unconsolidated granular media.

- EL-SAHRIGI, Ahmed-Farid Mohamed. The permeability and thermal conductivity of gases in porous media.

- WALDRON, Lawrence James. Soil as a viscoelastic medium.

University of California, Los Angeles

- BUSSELL, Bertram. Properties of a variable structure computer system in the solution of parabolic partial differential equations.

- ENGEL, Robert David. Non-linear stability of the extraordinary wave in a plasma.

- FULLER, Richard Harrison. Content-addressable memory systems.

- HSIEH, Hsien-Chiang. Synthesis of adaptive control systems by the function space methods.

- HUTTON, Robert Eugene. An investigation of resonant, nonlinear, nonplanar, free-surface oscillations of a fluid.

- NESBIT, Richard Allison. Several applications of the direct method of Liapunov.

- REISMAN, Arnold. A general model for production systems.

- SCHULTZ, Peter Redfield. Optimal control in the presence of measurement errors and random disturbances.

- STAUDHAMMER, John. Relative stability of parametrically excited systems.

- TURN, Rein. Assignment of inventory of a variable structure computer.

- WASHBURN, Dale Franklin. The role of hydrogen in the strain aging of iron in the presence of small quantities of carbon and nitrogen.

California Institute of Technology

- GRAY, Louise Dillon. I. Theoretical calculations of equilibrium infrared gas emissivities from spectroscopic data. II. Representative radiative energy transfer calculations for transparent and optically dense media.

- HICKLING, Robert. I. Acoustic radiation and reflection from spheres. II. Some effects of thermal conduction and compressibility in the collapse of a cavity in a liquid.

- MEI, Chiang Chung. I. On the initial value problems of radiation and scattering of water waves by immersed obstacles. II. Gravity waves due to a point disturbance in a stratified flow.

- PORTER, JR., John William. I. Chemical reactions during flow in rocket nozzles. II. Gas discharge rates through De Laval nozzles and the experimental determination of desorption rates.

Carnegie Institute of Technology

- KERR, Donald Ray. Theory and applications of piezoresistance of diffused layers in silicon and germanium.

- OLDHAM, William George. Semiconductor heterojunctions.

- PATZ, Benjamin William. Some examples of breakdown with imperfectly insulated anodes at low average-voltage gradients in room air.

The Catholic University of America

- ALEXANDER, Sidney R. Independent measurements of heat transfer and shear forces in the turbulent boundary layer on a sphere in supersonic flow.

Columbia University

- ABOU-HAMDA, Kamal M. An approach to village planning and design in the United Arab Republic.

ENGINEERING

STEININGER, Jacques. Hydrodynamics of flotation machines.

Cornell University

GERSHO, Allen. Characterization of time-varying linear systems.

Harvard University

ALEXANDER, Christopher Wolfgang John. The synthesis of form: some notes on a theory.

GEMMELL, Robert Stinson. Some aspects of orthokinetic flocculation.

HUANG, Nai-Chien. Unsymmetrical buckling of thin shallow spherical shells.

SUNG, Ki Soo. Linearized magnetogasdynamics for arbitrary Alfvén number, Mach number, and magnetic Reynolds number.

WEINBAUM, Sheldon. Natural convection in horizontal cylindrical enclosures.

Iowa State University
of Science and Technology

LERIBAUX, Henri Romain. Stochastic processes in coupled nuclear reactor cores.

The University of Michigan

NICHOLSON, Richard Benjamin. Methods for determining the energy release in hypothetical reactor meltdown accidents.

SCHLEE, Frank Herman. Multicondition terminal control.

SMITH, Earl Ford. Minimum-error demodulation of binary PCM signals.

Oklahoma State University

FRENEY, JR., Charles Cicero. A theory for design.

HARDEN, Darrel G. Transient behavior of a natural circulation loop operating near the thermodynamic critical point.

PAUL, John C. Application of modern algebra to engineering graph theory.

POAGE, Scott Tabor. Study of the classification of queues from the engineering standpoint, with particular consideration to the relationship of service rates to queue length.

PROCTOR, Charles Lafayette. Analysis of a hydromechanical control system element.

VACHON, Reginald Irene. Pulsing flow - a problem in pneumo-anemometry.

WOODS, Edward Glen. An investigation of cyclic, immiscible two-phase flow in porous media.

University of Pennsylvania

SHER, Lawrence David. Mechanical effects of AC fields on particles dispersed in a liquid; biological implications.

The Pennsylvania State University

COSGROVE, Joseph John. Theoretical and experimental determination of sweep efficiencies in bounded and unbounded systems.

Rensselaer Polytechnic Institute

LUECKEL, William J. Analysis of factors affecting the performance of centrifugal and mixed flow pumps.

PETERSEN, Daniel P. Sampling of space/time

stochastic processes with application to information and decision systems.

University of Southern California

AMBA, Saleh Abdul-Gadir. Use of direct electrical current for increasing the flow rate of reservoir fluids during petroleum recovery.

BEDER, Earl. On momentum exchange in elastic scattering--neutral particles and perfect crystal.

Stanford University

DELLINGER, David Carol. Some economic aspects of reliability and project management.

The University of Texas

ABIB, Osmar. Analysis of the factors influencing the performance of segregation drive reservoirs.

CHANCE, Clayton William. An evaluation in the utilization of 200 colored transparencies for the teaching of engineering descriptive geometry.

Yale University

BOHACEK, Peter Karl. Signal acquisitions in coherent receiving systems.

CATHEY, JR., Wade Thomas. A study of the logarithmic spiral antenna wound on a cone of elliptical cross section.

FRIEGLANDER, Jacob. Adsorption rates in a recycling system.

Aeronautical

University of Arizona

VINCENT, Thomas Lange. The use of variational techniques in the optimization of flight trajectories.

California Institute of Technology

AHLSTROM, Harlow Garth. Experiments on the upstream wake in magneto-fluid dynamics.

ANDERSON, William Judson. Studies in panel flutter: I. Flat and slightly curved panels; II. Cylindrical shells with boundary layer.

DEWEY, JR., Clarence Forbes. Measurements in highly dissipative regions of hypersonic flows: I. Hot-wire measurements in low Reynolds number hypersonic flows. II. The near wake of a blunt body at hypersonic speeds.

FOURNEY, Michael Eugene. I. On the application of a laser to high speed photography. II. Torsional magnetoelastic waves in a circular cylinder.

GOLD, Harris. Stability of laminar wakes.

HARWELL, Kenneth Edwin. Initial ionization of shock-heated argon, krypton, and xenon.

KNAUSS, Wolfgang Gustav. Rupture phenomena in viscoelastic material.

KO, William L. Application of finite elastic theory to the behavior of rubber-like materials.

PETTY, James Sibley. Linearized transonic flow about symmetric non-lifting airfoils.

SCHMIDT, Louis Vincent. Air loads on a circular cylinder.

SHI, Yun-Yuan. Low Reynolds number flow past finite cylinders of large aspect ratio.

VLASES, George Charpentier. Experiments in a cylindrical magnetic shock tube.

WU, Ying-Chu Lin. Flow generated by suddenly heated flat plate.

Case Institute of Technology

NACHTSHEIM, Philip Robert. The three-dimensional boundary layer and its stability.

The Catholic University of America

NICOLAIDES, John D. On missile flight dynamics.

Cornell University

BRAINERD, Jerome James. Magnetogasdynamic cone flow for the special case of infinite conductivity and aligned fields.

CLANCY, Thomas Francis. Effects of radiation forces upon the attitude of an artificial earth satellite.

ERICKSON, JR., John Clifford. A theory for unsteady motions of jet-flapped thin airfoils.

FALK, Theodore John. Current-layer diffusion in a one-dimensional magnetic pinch.

GEFFEN, Nima Dicker. On aligned-fields magnetogasdynamic flow with shocks.

JOHNSON, Donald Edward. Stresses due to forces on a non-radial nozzle in a spherical shell.

LENARD, Michael. Stagnation-point flow of a variable-property fluid at low Reynolds numbers.

MATES, Robert Edward. Three dimensional flow in the diffuser of a mixed flow compressor.

RUBIN, Stanley Gerald. On the propagation of small amplitude waves in magneto-gasdynamic channel flows.

Iowa State University
of Science and Technology

SEATH, Donald Dwight. Vibration of an inflatable fabric wing model.

University of Maryland

NUTANT, John Albert. The transition process in a boundary layer on a flat plate.

POLLIN, Irvin. Langmuir-type probe measurements in a shock tube and their relation to ion-electron diffusion in the stagnation point boundary layer between the detached shock and the wall of the probe.

Massachusetts Institute of Technology

ALDRIN, JR., Edwin Eugene. Line of sight guidance techniques for manned orbital rendezvous.

BRUNELLE, JR., Eugene John. Study of differential equations possessing either time-varying coefficients or weak nonlinearities. Application to an aerothermoelastic problem.

HALE, Francis Joseph. Insulator boundary layers in magnetohydrodynamic channels.

HOLLISTER, Walter Mark. Mission for a manned expedition to Mars.

KOHLMAN, David Leslie. Experiments on cylinder drag, sphere drag, and stability in rectilinear Couette flow.

NEW, Noah Carroll. Spacecraft attitude control for extended missions.

O'BRIEN, Timothy Frederick. On finite deflections of obliquely reinforced heated shallow shells of arbitrary planform.

STERN, Robert Gottlieb. Interplanetary mid-course guidance analysis.

DOCTORAL DISSERTATIONS 1962-1963

University of Minnesota

- BOHNE, Quentin R. Ground wind-induced loads on axisymmetric launch vehicles.
- CHU, Chong-wei. Nonlinear wave motion in an infinite cylindrical plasma confined by a magnetic field.
- KLAIMON, Jerold Howard. Some effects of the motion of electrically conducting fluids and bodies in the presence of a magnetic field.
- YALAMANCHILI, Janardanarao. Non-equilibrium hypersonic flow of air in hypersonic nozzles and around blunt bodies.

The Ohio State University

- FISHBURNE III, Edward Stokes. Non-equilibrium processes in a high enthalpy nozzle flow.
- HANKEY, JR., Wilbur Leason. Optimization of lifting re-entry configurations.

The University of Oklahoma

- BLICK, Edward Forrest. High speed flow through porous media.

The Pennsylvania State University

- EISENHUTH, Joseph Julian. Propellers with distorted inflow.

Polytechnic Institute of Brooklyn

- ALPINIERI, Louis Joseph. An experimental investigation of the turbulent mixing of non-homogeneous coaxial jets.
- CHOW, Reuben Ru-Ren. High speed low density flow near the stagnation point of a blunt body.
- KELLER, Jack Louis. Optimum rendezvous maneuvers for high thrust rockets.
- KENNEDY, Ernest Darrell. Wake like solutions of the laminar boundary layer equations.
- KELNSTEIN, Gdalia. On the mixing of laminar and turbulent axially symmetric compressible flow.
- STEIGER, Martin Herbert. Theoretical studies in viscous free-mixing.

Purdue University

- ELNAN, Odin R. S. A feasibility study of interception of a high speed target by a beam rider missile.

- VALANIS, Kyriakos. Studies in stress analysis of viscoelastic solids under non-steady temperature, gravitational and inertial loads.

Stanford University

- BALDWIN, JR., Barrett Stone. The propagation of plane acoustic waves in a radiating gas.
- BAUER, Andrew Burkhard. Edge-tone generation.
- DER, James Joe. Supersonic two-dimensional and axisymmetric nonequilibrium flow past curved boundaries.
- EMANUEL, George Jacob. Method for the calculation of one-dimensional nonequilibrium flow of a complex gas mixture.
- FOLEY, William Maximilian. An experimental study of jet-flap thrust recovery.
- PI, Wen-Yi Shih. Effects of geometry and unidirectional body forces on the stability of liquid layers.

- QUANBECK, Alton Harold. Further verification of jet flap thrust recovery and identification of its mechanism.

- SMITH, JR., Charles Edward. An analytic study of the starting process in a hypersonic nozzle.

The University of Texas

- LEE, Vernon Albert. Development of a method for the determination and analysis of optimum constrained ballistic orbit transfer mission.
- LUDWIG, Gary Roy. An experimental investigation of the sound generated by thick steel panels excited by turbulent flow (boundary layer noise).
- SWANSON, Swan Roy. An investigation of the fatigue of aluminum alloy due to random loading.

University of Toronto

- VIRGINIA POLYTECHNIC INSTITUTE
- PERKINS, John Noble. The effect of departure from ideality of a multiply ionized monatomic gas on the performance of rocket engines.

Virginia Polytechnic Institute

- CORNELL UNIVERSITY
- CLAYTON, Joe Todd. Estimating the sensible heat exchange between a chicken and its environment by simulation.

- MACKSON, John Chester. The effect of electro-osmosis on soil to steel sliding friction as influenced by speed, voltage and soil moisture.
- SCOTT, Norman Roy. An experimental and theoretical study of heat transfer through masonry walls.
- TOTTEN, David Stanley. Forage flow through an impeller-blower and vertical pipe.

Iowa State University of Science and Technology

- FOX, William Robert. Characteristics of a teflon-covered simple tillage tool.
- LINK, David Alan. Weather probabilities affecting machine system capabilities.
- PALMER, David B. Hydrograph development for agricultural watersheds based on point rainfall records.
- SCHERTZ, Cletus Earl. Motion of granular material on an oscillating conveyor.

- TAIGANIDES, Eliseos Paul. Characteristics and treatment of wastes from a confinement hog production unit.

Michigan State University

- CHEN, Cheng-lung. An analysis of overland flow.
- HENDRICK, III, James Gillespie. Application of tillage energy by vibration.
- HETSRONI, Gad. Heat transfer through an air curtain.
- JONES, Victor Alan. Steam injection for globule size reduction in an emulsion.
- KEPPELER, Richard Albert. Thermal properties of some frozen sugar solutions.

University of Minnesota

- BOHN, Gerhardt H. An evaluation of the potential value of a maintenance oriented instructional program in vocational agriculture as a means of improving the operating characteristics of the farm tractor.

University of Missouri

- MASON, JR., John Philip Hanson. A quantitative study of homeothermic regulation in the rabbit analogized to a closed-loop control system.

North Carolina State of the University of North Carolina at Raleigh

- HENSON, JR., Wiley Hix. Certain dielectric properties of intact tobacco leaves.
- SEWELL, John Ike. Moisture flow patterns in irrigation determined by approximate methods.

Oklahoma State University

- DAY, Donald Lee. Experimental analysis of cross-flow grain drying systems in deep cylindrical bins.

Purdue University

- HUANG, Barney Kuo-Yen. The dynamic behavior of off-road vehicles with elastic rims and wheel suspension.

Chemical

Agricultural and Mechanical College of Texas

- SULLIVAN, JR., Samuel Lane. Effect of orientation of the orifice plate on the formation of air bubbles at submerged orifices.

University of California, Berkeley

- BLANKS, Robert Franklin. Thermodynamics of polymer solubility in polar and nonpolar systems.

- BOWEN, Jewell Ray. Steady detonations in ozone-oxygen mixtures.

- EMANUEL, Alan. The effect of variable properties on liquid phase, laminar flow mass transfer.

- GROVE, Andrew S. An investigation into the nature of steady separated flows at large Reynolds numbers.

- HENNICO, Alphonse. Longitudinal dispersion in packed extraction columns.

- LANG, Sidney Bertram. A hydrodynamic mechanism for the coalescence of liquid drops.

- MUNIR, Zuhair Abdul Razzak. The activation energy for the sublimation of gallium nitride.

- NEAVIAN, Khosrow. Condensation coefficient of water.

- SHAIR, Fredrick Harold. Theoretical and experimental investigations of fluid flow and heat transfer around a cylinder in the region of low Reynolds number and high Prandtl number.

- VANDEGRIFT, Alfred Eugene. Liquid-liquid interfacial tension measurements with an oscillating jet.

- WHITNEY, David Clay. The effects of ion hydration in solvent extraction and ion exchange.

University of California, Los Angeles

- ACCOMAZZO, JR., Mauro Anthony. Catalytic oxidation of light hydrocarbons at low concentrations in air by a copper oxide-alumina catalyst (1:1).

- BLUMENTHAL, Jack Louis. Adsorption and reaction kinetics in the catalytic oxidation of carbon monoxide.

California Institute of Technology

- WANG, Yui-Loong. I. Thermal decomposition of n-butane. II. Flow in entrance section of parallel plates.

Carnegie Institute of Technology

- CAMP, David Thomas. Physical adsorption of argon and nitrogen on fixed beds of activated silica gel.

ENGINEERING

MODINE, Alan David. Ternary mass transfer.
ZAHRADNIK, Raymond Louis. The dynamic optimization of a cyclic catalytic gas reformer.

Case Institute of Technology

FUN, Fay. Gas absorption in a ribbon-grid column.
LEE, Chi-Chang. Electromechanical measurements for investigations of impact fatigue in plastics.
TRUESDELL, JR., Leonard Calvert. Numerical treatment of laminar flow through helical conduits.
WEINSTEIN, Herbert. The effect of mixing on conversion in continuous chemical reactors.
WEISSMAN, Eugene Yehuda. Mass transfer in horizontally moving stable aqueous foams.
WORKMAN, Walter Leigh. Mass transfer in supported froth.

University of Cincinnati

BRUNNER, Carl Alan. Foam fractionation.
ERNST, Walter R. Heat transfer by natural convection in a variable centrifugal field.

University of Colorado

TAMBO, William. The properties of active carbons made from a subbituminous coal.

Columbia University

DANIEL, Richard A. Isothermal vapor-liquid equilibrium of a ternary C₃ hydrocarbon and its constituent binaries.
GRAFF, Robert A. A steady state method for the measurement of ternary liquid diffusion. [Microfilming withheld until 1965.]
KARASYK, Leonard. Galvanostatic studies of the kinetics of copper deposition on cleaned and soiled copper cathodes. [Microfilming withheld until 1965.]
MATSEN, John M. Reduction of aqueous electrolytes by coal: the redox fuel cell reaction. [Microfilming withheld until 1965.]
RUBIN, Eliezer. Foam separation of metals.
RUSZKAY, Richard J. Transient response of liquid flowing through packed tower with air counterflow.
SIEGELL, Stuart D. Aeration and agitation in microbiological processes.

Cornell University

HAMILTON, Robert Maynard. Solid-liquid mass transfer in turbulent pipe flow.
MATHEWSON, JR., Wilfred Fairbanks. Effects of sonic pulsations on forced convective heat transfer to air on film condensation of isopropyl alcohol, and on condensation of isopropyl alcohol in the presence of air.
STAUDENMAYER, William Joseph. The continuous polymerization of styrene: a feasibility study.
WEBER, Thomas William. Control of a continuous-flow agitated-tank reactor.
ZIMMERMAN, JR., Carle Clark. Thermal de-methylation of toluene.

University of Delaware

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EFFRON, Edward. Graphite oxidation at low temperature.

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CLARK, William Eugene. Development of a theoretical procedure for prediction of static forces in a stationary bed of particulate solids with experimental verification of the resultant equations.

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MARSHECK, Robert Milton. A study of solid particle flow patterns in a fluidized bed using a modified thermistor anemometer probe.

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BLANCHET, Jean Lionel. Reactions of carbon vapors with hydrogen and with methane in a high intensity arc.

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BUTENSKY, Martin Samuel. Transpired turbulent boundary layer on a flat plate.

COKELET, Giles Roy. Rheology of human blood.

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LEINROTH, JR., Jean Paul. Hydrogenation of ethylene in a recirculation reactor.

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WU, Dao-Tsing. Study of mixing with chemical reaction in a continuous-flow stirred tank reactor.

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KAPSALOPOULOU, Ariadni J. Two-phase accelerated flow.

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BARRON, JR., Charles Henson. Reaction kinetics of the oxidation of sodium sulfite by the rapid-mixing flow method.

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- EIDMAN, Richard August Louis. Surface activation of polymer films by electric discharge.
- HAGEN, David Carl. An investigation of the viscoelastic properties of molten polymers in the region on non-linear stress-strain behavior.

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- ADAMS, Jim Mills. A study of the critical heat flux in an accelerating pool boiling system.
- ATWOOD, Glenn Arthur. An interferometric study of mass transfer during drop formation.
- CRUVER, James Earle. Metastable critical flow of steam-water mixtures.
- GORDON, Lyle Joseph. Solids motion in a liquid fluidized bed.
- MARTIN, Godfrey Quentin. An investigation into the turbulence characteristics of fluids in pipe flow.
- VALENTINE, Ralph Schuyler. Interfacial phenomena in free drops.
- VANCE, William Harrison. A study of slip ratios for the flow of steam-water mixtures at high void fractions.

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- HURLEY, James Robert. Control of chemical processes by parameter perturbation.
- MEZAKI, Reiji. Kinetics of the catalytic oxidation of methane.
- SHAH, Vipin Dhirajlal. The spray drying of enzyme rennin.
- ZIEGENHAGEN, Allyn James. The approximate analysis of heat transfer and non-linear fluid flow problems.

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- BARTLIT, John Rahn. Kinetics of methane and ethane pyrolysis in a flow reactor of novel design.
- LICHTBLAU, Irwin Milton. The compressibility of ammonia and its mixtures with nitrogen.
- SMITH, JR., William David. Axial dispersion in packed beds.

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- BARTEL, JR., Herbert Herman. Investigation of the effects of traffic sign illumination on sign recognition, legibility, and traffic operation characteristics.
- CLEVELAND, Donald Edward. A study of highway traffic assignment.
- GRUBBS, Edward Clayton. Adsorbed water and its influence on engineering index properties of clays.
- SEIGNER, JR., Edmund Peter. An investigation of the requirements for reinforcement around rectangular openings in the webs of wide-flange beams subject to bending moment and shear.
- YANTIS, Charles Weldon. The effective resistance of structural steel beams to combined flexural and torsional loads.

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- THOMSON, Stanley. Effects of salt content and adsorbed cations on the shear strength of a remoulded highly plastic clay soil.

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- HOEL, Lester A. A study of the utilization of trucks for transport in urban areas.
- TOCHER, James Lionel. Analysis of plate bending using triangular elements.

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- BOYLE, William Charles. Studies on the biochemistry of disinfection by monochloramine.
- JENNINGS, Paul Christian. Response of simple yielding structures to earthquake excitation.
- McMICHAEL, Francis Clay. Suspensions of particles generated by an upward flow.

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- BRUNGRABER, Robert J. Foam mechanics and viscometry.
- GHALIB, Mudhafar Ali. An analytical determination of bond stress in reinforced concrete.
- HAYDEN, John W. The flow properties of non-Newtonian fluids. Part I. Hydraulic transportation of solids in pipes. Part II. Flow properties of blood in glass capillaries.

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- KRISHNAMURTHY, Natarajan. The shear lag problem for materials with nonlinear stress-strain relation.
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- EVANS, Norman Allen. Osmotic flow.
- TEERAWONG, Pairoje. One-dimensional consolidation of unsaturated clay.

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- YOKEL, Felix Yochanan. The decay of hydrostatic excess pressures in a soil mass as a function of position and time.

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- MIKHAIL, Edward Mahrous. A new approach to analytical aerotriangulation; two-directional triplets in sub-blocks.
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- GARCIA BENGOCHEA, Jose Ignacio. The determination of aquifer constants using water-level observations in the pumping well.
- HALL, JR., John Russell. Effect of amplitude on damping and wave propagation in granular materials.

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- SCHWARTZ, Arnold Edward. An investigation of the strength of rock.

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- BRACKEN, JR., Harry Jerome. Some considerations of the use of extreme point solutions to linear inequality models.
- HARRINGTON, Joseph John. Decision models for environmental control systems.

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- ANDERSON, Robert Harold. Dynamic response of elastoplastic two-degree-of-freedom systems to ground shock.
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- CHELAPATI, Chunduri Venkata. Response of simple inelastic systems to ground motions.
- CHUANG, Kuen-Puo. Analysis of cylindrical shell roofs by use of energy principles and finite differences.
- DAI, Peter Kuang-Hsun. Analytical study of composite beams with inelastic shear connection.
- GREENWOOD, George Watkins. The development of regional traffic models for a central city and its outlying communities.
- HARPER, Goin Neil. A numerical procedure for the analysis of contained plastic flow problems.
- JIMENEZ QUIÑONES, Pedro. Compaction characteristics of tropically weathered soils.
- MAHAYNI, Mohamed Aref. Plates of elastic layers.
- MAJIDZADEH, Kamran. Tensile properties of asphalts in thin films.
- PETERS, John Donald. A gage for measuring pore water pressures in soils under dynamic loads.
- RAAMOT, Tonis. The foundation behavior of ore yards.
- ROY, Hedley Edmund Herbert. A failure theory for concrete.
- SIMMONDS, Sidney Herbert. Effects of column stiffness on the moments in two-way floor slabs.
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- WOODRING, Richard Earl. An analytical study of the moments in continuous two-way slabs produced by concentrated loads.
- YAMASHIRO, Ricardo. Moment-rotation characteristics of reinforced concrete members subjected to bending, shear, and axial load.
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Stanford University

DOUGLAS, James. Obsolescence as a factor in the depreciation of construction equipment.

FLEISCHER, Gerald Albert. The economic utilization of commercial vehicle time saved as the result of highway improvement.

ROBERTSON, James Chalmers. The lateral stability of beams of non-uniform cross-section.

SHAH, Haresh Chandulal. Application of regression analysis for predicting ultimate strength of reinforced concrete columns.

STREET, Robert Lynnwood. A linearized theory for rotational, supercavitating flow.

TEICHLER, Paul Michael. A simulation approach to the selection of construction equipment.

VENUTI, William Joseph. Probability of fatigue failure of bonded-type prestressed concrete beams.

WANG, Flora Fang-Chuan Chu. An approach to the solution of unsteady unsaturated flow problems in soils.

The University of Texas

CARLTON, JR., Thomas Arlis. The distribution of gravity stresses in a symmetrical trapezoidal embankment and its foundation.

FURLONG, Richard Wilson. Long columns in single curvature as a part of concrete frames.

SCHOELLER, Wilbur Charles. The effects of material properties on the ultimate strengths of continuous beams.

TUCKER, Richard Lee. A general method for solving grid-beam and plate problems.

University of Utah

HANSEN, Richard H. Comprehensive master plan for Bountiful City, Utah.

HEPWORTH, Richard Cundiff. Heaving in the subgrade of highways constructed on the mancos shale.

MORIN, Wilbur Joseph. Foundation conditions, Cart Creek bridge.

WANG, Wen Long. Shape, size, and depth influence of footings on the bearing capacity of homogeneous soil.

YEN, Bing Cheng. Stress field and initial acceleration field of critical stable slope in soil media.

University of Washington

MELOSH, Robert James. Development of the stiffness method to define bounds on elastic behavior of structures.

The University of Wisconsin

DAY, Harold John. Energy changes in disturbed liquid turbulent flow.

LAKSHMANA RAO, Nagar Seshagiri. Laminar pipe flow disturbed by orifices and screens.

KAMPEMPPOOL, Smith. A theory of hyperbolic paraboloid shells subject to wind load.

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Electrical

Agricultural and Mechanical College of Texas
JOHNSON, JR., Milton Raymond. The power-angle concept of the single-phase induction machine.

TATUM, Finley Womack. An approach to the estimation of errors in linear transfer functions.

University of Arizona

BRUBAKER, Thomas Allen. The design development and applications of the ASTRAC computer.

University of California, Berkeley

BACON, Glenn Charles. Interconnection and decomposition of stochastic finite state systems.

BROOKS, Robert Ellison. The probabilistic behavior of tracking control systems with noise disturbances.

BUTLER, Jack Fairchild. Nonlinear-impedance effects at electrode-electrolyte interfaces.

CARLILE, Robert Nichols. Experimental investigation of microwave propagation in a plasma wave guide.

EATON, James Howard. An iterative solution to time-optimal control.

HILL, Lester Owen. Electronic bistability in integrated circuits.

KNUDSEN, Harold Knud. Minimal time control of systems with complex roots.

KODAMA, Shinzo. Stability of nonlinear discrete control systems.

MACHOL, Guenther Keith. Randomized policies for stochastic sequential systems.

NASAR, Syed Abu. Electrical machines with accelerated magnetic fields.

POLLACK, Martin Alan. Noise transport in the crossed-field electron stream.

WAGNER, Terry John. Generalized coding and uniform finite-memory codes.

WHALEN, Barry Hugh. Linear programming for optimal control.

WILLIAMS, Ivan Joe. The determination of Lyapunov functions which verify Alzerman's conjecture.

WING, Jack. Minimal time control problem for linear discrete systems.

WIRTH, Niklaus Emil. A generalization of algol.

University of California, Los Angeles

BORSEI, Arthur A. On the use of piezoelectric magneto-strictive coupling in digital devices.

CHANCE, Dudley Augustus. Photoeffects at solid-electrolyte interfaces.

WELTMAN, Gershon. The continuous measurement of pulse wave velocity.

California Institute of Technology

DE BARBEYRAC Saint-Maurice, Jacques. Minimal time deadbeat regulation and control of linear, stationary, sampled-data systems.

TITSWORTH, Robert Clem. Correlation properties of cyclic sequences.

Carnegie Institute of Technology

AGNEW, Thomas Ira. An investigation of some parameters influencing the buildup of pulsed discharges into sparkover.

ASHLEY, Kenneth L. Investigation of space-charge-limited currents in semiconductors containing deep-lying impurities.

BRANDEWIE, Richard Anthony. The interaction of electromagnetic waves with a shock heated plasma.

DAMASKOS, Nickander James. The magnetohydrodynamics of induction stirring.

ENGLISH, Thomas Dunstan Patrick. An investigation of superconductive films of tin in the electrical intermediate state and some applications.

LADE, Robert Walter. A study of high-low junctions and high-low junction semiconductor devices.

O'DONNELL, John Joseph. Investigation of problems in the optimal control of linear multidimensional systems.

PERLMAN, Stuart Stanley. P-N heterojunctions with experiments on germanium-gallium arsenide structures.

PROBST, Robert Edward. Dipole phenomena and particle size effects in electrostatic precipitation.

SZEDON, John Robert. An investigation of the static and dynamic properties of the avalanche injection diode.

TAUSON, Richard Andrew. A study of a finite-difference solution technique applied to a class of electromagnetic eigenvalue problems.

Case Institute of Technology

FAHEY, Walter John. On a study of a high-ratio mirror coil.

FERENDECI, Altan Mevlut. Collective effect on cyclotron radiation in a plasma.

NAIN, Hari Jethanand. Synthesis of n-port networks.

TSIVITSE, Peter John. Analysis of a brushless induction frequency changer.

The Catholic University of America

McDONNELL, Frank E. Domain dynamics and threshold switching phenomena in ferroelectrics.

University of Colorado

ANDRESEN, Svein Groth. Surface ionization of lithium fluoride and thallium on tungsten, rhodium, and platinum surfaces.

Columbia University

BIGELOW, Stephen C. Adaptive control of non-linear sampled data systems.

BLUESTEIN, Leo I. The quantization of noisy and noise-free signals for minimum error.

BROOKNER, Eli. Detection of sequences of pulsed carrier signal in noise with applications to surveillance pulsed radars.

DERN, Herbert. A study of the sampling and generation of random time series.

DIAMENT, Paul. A formal solution to Maxwell's equations for general linear media.

DORROS, Irwin. Performance of a binary fm system as a function of the channel.

MARCOVITZ, Alan B. Linear time-varying discrete systems. [Microfilming withheld until 1965.]

RADOW, Gerald. Performance limits for feedback control systems.

SEN, Amiya K. Kelvin-Helmholtz instability in a plasma and geomagnetic micropulsations.

SRINIVASAN, Chittoor V. State diagram of linear sequential machines.

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The University of Connecticut

LINDGREN, Allen Gustave. Synthesis of multi-variable systems with interacting control.

Cornell University

CURTICE, Walter Richard. A method of noise reduction for linear beam microwave devices of medium power.

KOVATCH, George. A study of self-sustained oscillations in system with piece-wise linear elements.

MOSTELLER, Henry Walter. A study of optimal control for linear processes.

NAGY, George. Analogue memory mechanisms for neutral nets.

RAMAKUMAR, Ramachandra Gupta. An analysis of the eddy-current slip coupling.

THORP, James Shelby. Synthesis of variable active networks.

Duke University

MOORE, Edward Towson. Static electrical-to-electrical energy conversion from direct current sources.

The University of Florida

WELDON, JR., Edward Joseph. Asymptotic error coding bounds for the binary symmetric channel with feedback.

Georgia Institute of Technology

GOODE, Joseph Morris. The analysis of the double-Kelvin transmission line and some applications.

HAWTHORNE, JR., George Boltz. The relationship of word power and noise-masked gain function parameters to the intelligibility of word sets.

PHILLIPS, Charles Lamar. Synthesis of three-terminal $\pm R, C$ networks.

SHOCKLEY, JR., Thomas Dewey. Reciprocity and its application to the oblique reflection of electromagnetic waves from the ionosphere.

WHITE, JR., Thomas Mitchell. Frequency transients in a sinusoidal oscillator synchronized by a sinusoidal signal of arbitrary initial phase.

University of Illinois

ALLEN, Don Robert. Minimizing precession torques in the electrically supported gyro.

BAIRD, Jack Roger. Deflection modulation and millimeter waves.

BALMAIN, Keith George. The impedance of a short dipole antenna in a magnetoplasma.

BLACHFORD, Cameron Wallace. Induction cup parameters from electromagnetic field theory and experimental analysis.

CHAN, Shu-Park. Realizability conditions of single-contact functions.

CUMMINS, Richard Lee. The existence of Hamilton circuits in tree graphs.

DOEMLAND, Harvey Hunter. Synthesis of root loci.

ELSEY, John Charles. An algorithm for the synthesis of large sequential switching circuits.

GONZALEZ, Victor Hugo. A method of determination of ionospheric electron density profiles from Faraday rotation of satellite borne radio signals.

HEIZER, Kenneth Wendell. Distributed RC networks with rational transfer functions.

HUMPHREYS, DeVerl Stratford. Rational function approximation of polynomials with equiripple error.

JOPPA, Richard Marvin. Considerations of root sensitivity in the time domain.

KAFKA, Robert William. An optimization technique for pulse width modulated systems.

KAHNE, Stephen James. On direct fixed-time optimization of invertible systems.

KLOCK, Paul William. A study of wave propagation on helices.

LAL, Manohar. On physical realizability of signal flow graphs and realization techniques.

MacPHIE, Robert Henry. Application of cross-correlation techniques to linear antenna arrays.

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PATTON, Willard Thomas. The backfire bifilar helical antenna.

PUGSLEY, James Harwood. Linear sequential machines whose logic elements contain delay.

RIBEIRO, Sergio Telles. Phase plane theory of transistor bistable circuits.

ROSENBAUM, Fred Jerome. Cerenkov radiation from anisotropic ferrites.

SWARTWOUT, Robert Earl. Further studies in speed-independent logic for a control.

Illinois Institute of Technology

ARISMUNANDAR, Raden Artono. A method of switching-surge simulation in electrical networks.

KANELAKOS, Demetrios P. Ionospheric perturbations affecting the frequency and bearing of H-F waves.

KNOP, Charles Milton. Radiation characteristics of apertures in coated metal surfaces.

NARAYANAMURTHY, S. G. An analysis of optimum operation of the hydroelectric system.

RAMAN, K. Sundara. Rapid demagnetization of large synchronous machines.

SALTZBERG, Theodore. Two-way data communication systems.

THAPAR, Baldev. Resistance of grounding grids in non-uniform soil.

WANG, Tsih-Chang. A study of synchronous machines with feedback controls.

Iowa State University of Science and Technology

AUDEH, Nadeem Fawzi. Traveling-wave parametric amplifier using thin film.

BOND, Paul Riley. Secondary breakdown in transistors.

DAUGHTON, James Michael. Effects of demagnetizing fields on the measurements of dispersions of magnetic anisotropy in thin ferromagnetic films.

DOIDGE, Jerome George. Parametric devices using magnetic thin film and thin disks of yttrium iron garnet.

FANSLOW, Glenn Ellsworth. A magnetic film low frequency parametric amplifier.

GARLICK, George Forrest. Reverse transient of a p-n junction.

HOVERSTEN, Estil Vernon. Performance of a phase modulation system using m-level codes.

KLINER, Jacob. A biomedically engineered myocardial prosthetic system.

MERICLE, Morris Henry. Automatic interpretation of the clinical electrocardiogram.

POST, Robert Elgin. The flat-earth approximation to the solution of electromagnetic propagation in a stratified terrestrial atmosphere.

SAMUELS, Robert Lynn. Noise characteristics of thin ferromagnetic film devices.

SHIPPY, David James. Electrical analog of the potential distribution in two-dimensional unsteady-flow fields.

SMAY, Terry Allen. Energy transfer properties of thin magnetic film logical elements.

SMITH, William Rouse. Associative memory techniques for large data processors.

VITOLS, Visvaldis Alberts. An electronically controlled delay line.

WATSON, George Arthur. An algorithm for geodetic navigation for the transit satellite system.

The Johns Hopkins University

EPPERS, JR., William Carl. Ion energy distribution at the cathode of the abnormal glow discharge.

LORY, Henry James. A forming study of point-contact tunnel diodes.

McDONOUGH, Robert Newton. Matched exponents for the representation of signals.

RAINAL, Attilio Joseph. Zero-crossing intervals of random processes.

RANNESTAD, Andreas. Paramagnetic relaxation in dilute potassium ferricyanide.

RICHARD, Robert Henry. A nonlinear filter for improvement of signal detectability in the presence of non-Gaussian noise.

SMITH, James Warren. The detection of multiple unknown signals by adaptive filters.

University of Kansas

RIGAS, Harriett B. Optimum and self-optimizing linear multivariable control systems.

Lehigh University

HOLZINGER, Carl Sanford. Nondestructive read-out of ferrite memory devices.

University of Maryland

KHU, Eric Bun Chiong. Broadside-coupled tem-mode bandpass filters derived from coaxial resonators.

MARINI, John William. Radiation from sources in magneto-ionic media.

ROCHELIE, Robert White. Pulse-frequency-modulation telemetry.

Massachusetts Institute of Technology

COGDELL, John Richard. Mode theory of the active magnetohydrodynamic waveguide.

COX, Henry. Estimation of state variables for noisy dynamic systems.

CRAWFORD, Charles Kimball. Electron ionization cross-sections for atoms of metals.

CUMMINGS, John Rodgers. Limitations on diagnosis of radiators and scatterers for far-zone fields.

CUNNINGHAM, James Edward. Temporal filtering of motion pictures.

GOBLICK, JR., Thomas John. Coding for a discrete information source with a distortion measure.

HARING, Donald Russell. Some aspects of the state assignment problem for sequential circuits.

HEINZ, John Michael. Reduction of speech spectra to descriptions in terms of vocal-tract area functions.

HELGESSON, Alan Lee. Gain-bandwidth limitations of balanced, three-frequency parametric amplifiers.

JEDYNAK, Leo. Investigation of vacuum breakdown.

KATZENELSON, Jacob. Design of nonlinear filters.

KENNEDY, Robert Spayde. Finite state binary symmetric channels.

KLEINROCK, Leonard. Message delay in communication nets with storage.

KNOWLTON, Kenneth Charles. Sentence parsing with a self-organizing heuristic program.

LIU, Chung Laung. Some memory aspects of finite automata.

LOOMIS, JR., Herschel Hare. Effects of logic delay on computation rate.

MACURDY, William Bradford. Mathematical models for sensory communication.

MASSEY, James Lee. Threshold decoding.

NORRIS, Richard Cromwell. Studies in search for a conscious evader.

PAN, John William. Reduction of information redundancy in pictures.

PFEIFFER, Russell Raymond. Electro-physiological response characteristics of single units in the cochlear nucleus of the cat.

PODUSKA, John William. Random theory of turbulence.

ROBERTS, Lawrence Gilman. Machine perception of three dimensional solids.

SCHNEIDER, Arthur John. Alternating-current generation from the interaction of a moving conducting fluid with a circuit.

SCHWAB, Walter Carlton. Synthesis of RC networks by normal coordinate transformations.

SPINRAD, Robert Joseph. Machine recognition of hand printed block letters.

SUTHERLAND, Ivan Edward. Sketchpad, a man-machine graphical communication system.

TROXEL, Donald Eugene. Tactile communication.

WEDLOCK, Bruce Daniels. Spectral response and conversion efficiency of P-N junctions.

WEINREB, Sander. Digital spectral analysis technique and its application to radio astronomy.

WEISS, Thomas Fischer. Model for firing patterns of auditory nerve fibres.

WEMPLE, Stuart Harry. Polarization effects on magnetic resonances in ferroelastic potassium tantalate.

McGill University

LUM, Yun-Foo. Diffraction-aberration theory of microwave optical image formation.

The University of Michigan

ADAMS, David Kendall. A study of double-sideband reactive mixers.

BILAL, Abd El Moneim Youssif. The analysis of a certain class of nonlinear systems.

HADDAD, George Ilyas. Efficiency and start-oscillation conditions in nonuniform backward-wave oscillators.

HAZELTINE, Barrett. Three problems in the synthesis of switching circuits.

LEMAY, Joseph Louis. Recoverable, reachable, controllable, and maintainable regions for control systems with linear plants and bounded controller outputs.

NAGY, Andrew Francis. Theoretical investigation of sounding rocket- and satellite-borne ion traps.

PALERMO, Carmen Joseph. Theory of stochastic delays.

DOCTORAL DISSERTATIONS 1962-1963

ROBINSON, Alfred Christian. On the second-order properties of the output of certain first- and second-order nonlinear systems with random inputs.

TOPPETTO, Alphonse Albert. Switching model for finite length, thin-film, cylindrical shell.

WADHWA, Rajindar Pal. Noise transport in crossed-field devices.

Michigan State University

DUBES, Richard Charles. A mathematical analysis of the effects of component failures on system performance.

KIM, Chan Kyu. Optimization of discrete state linear multivariable systems.

RANE, Dinkar Shankar. On the numerical solution of linear and nonlinear system models.

WILCOX, Lyle Chester. Programming techniques and the economic dispatch problem.

University of Minnesota

CAMPBELL, Donald Arthur. Long pulse performance of oxide coated cathodes.

FASSETT, John Richard. Electronic fluctuations in solids involving the transport, generation, and recombination of charge carriers.

HILL, James Edwin. Noise associated with low voltage breakdown processes in germanium single crystals at liquid helium temperatures.

LO, Shih-fang. Noise in tunnel diode mixers.

LUH, Johnson Yang-Seng. An analysis of a sampled-data control system containing prescribed natural frequencies higher than the half sampling frequency.

The University of New Mexico

COOK, Kenneth Robert. Electromagnetic radiation in magneto-ionic media for VLF and VHF spectra.

DURRANI, Sajjad Haidar. The monopole antenna with a small number of radials.

JANZA, Frank J. The analysis of a pulsed radar acquisition system and a comparison of analytical models for describing land and water radar return phenomena.

KULTERMAN, Robert Wayne. Linear side-loaded transmission-line antennas.

LeBLANC, André Réné. Hypersonic plasma thermionic generator.

New York University

HERSKOWITZ, Gerald Joseph. The propagation of electronic signals in multilayer semiconductor structures.

PEARLIS, Harlan Jay. Relative improvement evaluation for a class of self-adaptive systems.

STEIGLITZ, Kenneth. The general theory of digital filters with applications to spectral analysis.

WEISS, Robert Franklyn. Stability of the stagnation region to three-dimensional disturbances.

WYNDRUM, Ralph William. The synthesis of distributed RC networks.

North Carolina State of the University of North Carolina at Raleigh

DOWDLE, Joseph Clyde. Determination of the dielectric constant of solid dielectrics through an application of Pearce's equation.

OWEN, JR., Harry Ashton. Analytical and experimental studies of the persistatron switch.

STANLEY, William Daniel. Time domain synthesis of RC delay networks.

VOSS, JR., Charles Henry. A new high-speed method of testing capacitors.

Northwestern University

DALLOS, Peter J. A small signal analysis of the human eye fixation mechanism.

KUCK, David Jerome. A multicontext problem solving system with natural language inputs.

PARSONS, Merlin Kent. An apparatus for the measurement of the inductive effect of Hall currents at microwave frequencies.

SPLITT, Frank George. An investigation of multiple time shift keyed transmission systems.

WARSHAWSKY, Jay. The focusing servomechanism of the human eye.

The Ohio State University

BAJWA, Jagdev Singh. Analysis of a Magamp-servomotor system.

BARNETT, JR., Roy Irving. An all dielectric coaxial waveguide and antenna.

CHINTAKINDI, Rama Bai. Structure and bonding in polymorphs of crystalline boron: a self-consistent field density-matrix formulation and symmetry reduction of the secular equation in the LCAO approximation for α -rhombohedral boron.

DAWIRS, Harvel Nick. Novel techniques in the analysis and design of microwave filters and radomes.

DHAKA, Vir Abhimany Singh. The effect of a magnetic field on the forward characteristics of long germanium junction diodes.

GERHARD, Glen Carl. On the current-voltage characteristic of PIN and PSN diodes at high injection levels.

JOSENHANS, James Gross. A study of magnetic field effects in the base of a silicon N-P-N junction transistor.

KANG, Ki Dong. The mechanisms for oxidation of silicon and diffusion of donor and acceptor impurities into the oxide for a silicon-silicon dioxide system.

KNOX, James Lester. Propagational phase variation measurements at very low frequencies.

LONG, Ronald Killworth. Absorption of laser radiation in the atmosphere.

MOLL, Magnus. Probability density functions for derivatives of stochastic processes.

POTTS, Byron Carl. Utilization of the Faraday effect in ionospheric studies.

SWARNER, William Gene. Radar cross sections of dielectric or plasma coated conducting bodies.

THOMAS, David Tipton. Scattering by plasma and dielectric bodies.

WU, Chen Pang. A study on the radiation from elementary dipoles in a magneto-ionic medium.

The University of Oklahoma

PALMER, James Daniel. An investigation of spontaneous electromagnetic emissions from static plasmas.

WILLIAMS, Darrell Ray. An investigation of silicon transistor storage times at low temperatures.

University of Pennsylvania

ANNE, Antharvedi. Scattering and absorption of microwaves by dissipative dielectric objects: the biological significance and hazards to mankind.

CHALAM, Vankadari Venkata. Evaluation of transient performance of induction motors.

DIAMESSIS, John Elias. On the continuous identification of system dynamics.

DOVIAK, Richard James. The study of the motion of wave packets in an inhomogeneous, dissipative medium.

FARHAT, Nabil Hasan. Diffused plasma boundaries and some aspects of electromagnetic wave synthesis.

LANDAUER, Walter Isfried. The tree as a stratagem for automatic information handling.

MARON, Irving. Statistical analysis of a pseudo-random coded pulsed radar applied to radar astronomy.

ROTOW, Alexander Alexander. Electron image formation in axially symmetric electromagnetic imaging devices.

SABLE, Jerome David. Language and information structure in information systems.

SMYTH, Michael Paul. Generalization and application of frequency substitution in the Fourier and Laplace integrals.

The Pennsylvania State University

DE BARBER, John Paul. The diffraction of high frequency radio waves by irregularities in the ionosphere with emphasis on waves emanating from satellites.

LEE, Hai-Sup. A statistical study of apparent horizontal ionospheric movements using 300 kc/s radio waves.

PAYNE, III, John Bayly. The investigation of an electron resonance spectrometer utilizing a cavity-feedback microwave oscillator.

STRAND, Richard Alvin. A generalized approach to the synthesis of electromechanical energy converters.

University of Pittsburgh

HERNANDEZ, Juan L. Some studies on a class of two-port nonlinear control systems.

JUD, Henry Gustav. On "positive-negative feedback" and "bang-bang" switching control systems.

LEEDS, J. Venn. The synthesis and design of optimum, canonic networks using "off the shelf" components.

MARGOLIS, Stephen G. Computation of regions of asymptotic stability for closed-loop systems by Lyapunov's second method.

O'SHEA, Richard Paul. Studies on the domain of asymptotic stability of discrete-time control systems by Liapunov's direct method.

RUDE, Paul Arthur. Simplification and design of switching circuits employing a particular type of switching element.

SCHIRING, Earl E. Effect of saturation on the dynamic response of a class of bang-bang control systems.

SMITH, Nelson Stuart. The contribution of ions, dipoles and electrons in carnauba wax to electret formation.

SPINGARN, Karn. Control system compensation to reduce the effects of noise, system nonlinearity and load disturbance.

Polytechnic Institute of Brooklyn

AHRONS, Richard W. Superconductive memories.

BOESCH, Francis Theodore. On the synthesis of resistor N-ports.

GOODMAN, Paul H. The design of adaptive, multivariable, sampled-data control systems.

HELLSTROM, Melbourne John. The distributed rc network.

KU, Walter Hua. A theory for broadband varactor parametric amplifiers.

MANDERS, Arnfinn Folkvard Moe. Error control in digital communication.

ENGINEERING

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MENDEL, Jerry Marc Leon. The identification of overdamped processes in the time-domain.

PADELINO, Joseph John. Game and decision theories applied to adaptive control systems.

PANDE, Harish Chandra. Electromechanical pulsers.

ROSS, Gerald Fred. The transient analysis of multiple beam feed networks for array systems.

SUSSMAN, Nathan. Differential square law analog multiplication.

SZENTIRMAI, George. The design of arithmetically symmetrical bandpass filters.

UR, Hanoch. Parameter variations in control systems.

WARSHAUER, Joseph Albert. Stochastic linear equivalents of closed loop systems.

YAGODA, Harry Nathan. On the design of linear process adaptive control systems.

Purdue University

AEIN, Joseph Morris. Correlation receivers minimizing intersymbol interference.

BERNDT, Helmut. Estimation of time-varying correlation functions.

HARRISON, Robert Eugene. Electromagnetic propagation velocities in an inhomogeneous or random atmosphere.

KLINE, Raymond Milton. Analysis and design of digital control systems.

LEEDHAM, Clive Douglas. Pontryagin's maximum principle and the design of optimum systems.

LYTAL, Kenneth Eugene. Steady state response of driven networks containing a single type of lossless nonlinearity.

MONTGOMERY, Robert Morris. Some high frequency techniques for the analysis of a gaseous discharge plasma.

PEARSON, JR., James Boyd. On the design of a class of discrete systems.

SCHOENDORF, William Harris. Propagation of an electromagnetic wave through a diffusing plasma.

SMITH, John Ineson. A new application of the reaction concept to the numerical solution of the electromagnetic wave scattering problem.

THOMPSON, JR., Hannis Woodson. Experimental investigation of three-layer diodes and diffused junctions.

WADE, William David. Binary communications systems using wideband signals.

WILLIAMS, James Doyle. The electric field variation in non-abrupt P-N junctions, and error analysis of numerical integration with predicted optimum numerical integration-increment.

WOLFGANG, Lozure Gene. An investigation of secondary emission by pulse techniques.

WOMACK, Baxter Frank. Synthesis of a class of linear time-variable parameter control systems.

Rensselaer Polytechnic Institute

AHN, Kie Y. Investigations of ternary-alloy thin magnetic films.

FLECK, Joel J. Selected problems of bodybound inertial navigation systems.

HASKELL, Richard E. Polarization transformations with applications to anisotropic plasmas.

OWEN, Earle W. Optimum reaction wheel attitude control.

STOTZ, Kerwin C. Investigation of plasma afterglows with application in nitrogen.

Rice University

BADGER, Algernon S. Magnetic field effects on ruby laser polarization and multiple mode output detected by microwave beat frequencies.

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CYPRUS, Joel Howard. Optimal synthesis of the Boolean functions of four variables with majority logic.

University of Saskatchewan

RATZ, Herbert Charles. Adaptive coding.

SWAMY, Mayasandra Nanjundaiah Srikanta. A high speed tunnel diode decade scaler.

University of Southern California

McGHEE, Robert Brown. Identification of nonlinear dynamic systems by regression analysis methods.

SMYTH, Richard. Phase and amplitude dither self-adaptive control systems.

STEWART, Gordon. Microwave measurement of electron profiles in plasmas.

Stanford University

AMMANN, Eugene Otto. A broadband solid-state microwave maser operating at liquid nitrogen temperature.

BARRY, George Hamilton. Doppler-shifted radio reflections from hypersonic plasma irregularities. [Dissertation is classified - therefore not available.]

BECHTEL, JR., Norbert George. A circuit and noise model of the field-effect transistor.

CHAN, Kwok-Long. Study of short-period variations in the ionosphere by means of instantaneous frequency measurements.

CROMACK, John Campbell. A wide-tuning range s-band traveling-wave maser.

DELEY, Gary Walter. Optimal bounded control of linear sampled-data systems using quadratic performance criteria.

DUNN, JR., Vernon Eugene. Realization of microwave pulse compression filters by means of folded-tape meander lines.

EDWARDS, Rodney Walter. Algebraic synthesis of switching networks.

FENWICK, Robert B. Round-the-world high-frequency propagation.

GOODMAN, Joseph Wilfred. A study of some complex countermeasure signals and their compatibility. [Dissertation is classified - therefore not available.]

GRAHAM, JR., William Robert. Electro-optical generation of electromagnetic radiation.

HARRIS, Donald Penn. Communication through random multipath media.

HOFF, JR., Marcian Edward. Learning phenomena in networks of adaptive switching circuits.

HOLMES, Charles Henton. Nonlinear resonance in gyromagnetic media.

HOWER, Glen Lamar. Synchrotron emission from electrons in the earth's magnetic field.

KEEHN, Daniel George. Learning the mean vector and covariance matrix of gaussian signals in pattern recognition.

KINCHELOE, JR., William Robertson. The measurement of frequency with scanning spectrum analyzers.

KIRCHNER, Ernst Karl. Second harmonic generation using ferrimagnetic materials with microwave resonators.

LEE, Imsong. Study of linear feedback systems with periodic parameters through an extension of the Floquet theory.

LEESON, David Brent. Large-signal analysis of parametric frequency multipliers.

LINDSAY, Robert Ernest. Approximate solution in a finite time interval for ordinary nonlinear differential equations.

LUENBERGER, David Gilbert. Determining the state of a linear system with observers of low dynamic order.

LUSIGNAN, Bruce Burr. Detection of solar particle streams using high-frequency radio waves.

MALTZ, Michael David. Analysis of chatter in contactor control systems, with applications to dual-input plants.

MAO, Shing. Cyclotron-wave amplification using simultaneous rf coupling and dc pumping.

MARBACH, Herbert Diehl. The optimal control of linear systems for a minimum control-effort performance criterion.

MAYS, Crowell Hugh. Adaptive threshold logic.

OZAWA, Takao. Nonlinear resonance computer components.

RUSHFORTH, Craig Knewel. Communication in random or unknown channels.

SCHEIBE, Paul Otto. Theoretical bandwidth limitations in uhf parametric amplifiers and converters.

SMITH, Richard Grant. Nonlinear quantum effects.

SWIONTEK, Michael Carl. A systematic approach to the realization of nonlinear operations.

SZE, Simon Min. Hot electrons in thin gold films.

SZENTE, Pedro Americo. Generation of submillimeter radiation by a bunched beam of relativistic electrons.

THOMASSEN, Keith Irvin. Observations of collective phenomena in plasmas.

VAN OVERSTRAETEN, Roger Joseph. Charge multiplication in silicon p-n junctions.

WARD, Robert Byron. A study of the class-C applications of power transistors at high and very high frequencies.

WONG, Edward. Transit-time modulation of variable artificial delay lines.

State University of Iowa

LA PATRA, Jack William. Topological formulations for a linear graph.

Syracuse University

BAULE, Gerhard. Detection of the magnetic field of the heart.

CHANG, Long Fei. Velocity distribution in electron streams.

CHEN, Chang Chung. An equivalent circuit of a modified semi-static ferromagnetic amplifier.

CORNACCHIO, Joseph V. On the analysis of instability criteria for microwave amplification in ferromagnetic media.

HOPPEL, Charles J. Sensitivity study of selected optimum systems.

WALKER, Watson. An investigation of the error performance of a class of binary communications systems in fading and noise.

The University of Texas

BELL, Robert Austin. Investigation of solid-state logic circuit techniques applied to protective relaying.

GEORGE, JR., Charles Floyd. Application of special filtering techniques to well log analysis.

MATHIS, Robert Couth. A lunar echo study at 425 mcs.

MCCLURE, Robert Marshall. The analysis and synthesis of finite automata.

MFARLAND, II, Clay. Regular expressions and finite automata.

WILLMAN, Joseph Frank. Ionospheric refraction effects on the Doppler shift of radio transmissions from artificial earth satellites.

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U.S. Naval Postgraduate School

YARBROUGH, Raymond B. Theoretical analysis of two core self-saturating magnetic amplifiers.

University of Utah

HILL, Frederick James. Linear and exponential threshold logic.

LEE, Joseph Chen. Space-charge waves in a stationary plasma.

PASSEY, Dee Clinton. Designing a range-computing device for a small two-stage ballistic missile.

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DENMAN, Eugene Dale. Electromagnetic scattering from a periodic variation of the refractive index of finite length.

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Stanford University

CRAWFORD, Norman Holmes. The synthesis of continuous streamflow hydrographs on a digital computer.

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University of Washington

MENON, Premachandran Rama. On methods of optimizing the operation of hydro-electric systems.

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University of California, Berkeley

GRAF, Walter Hans. Investigation on a two-phase problem in closed pipes.

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ABU-ZIED, Mahmoud Abd El-Haleem. Nonsteady flow to a well for a decreasing rate of discharge.

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Cornell University

COLEMAN, JR., John Robert. Optimum plant design under variable demand.

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The Johns Hopkins University

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RANDEL, William C. Linear programming in a small forest products firm.

Washington University

OZAN, Mustafa Turgut. System development: a statistical approach to some problems of the development of special purpose automatic systems.

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University of California, Berkeley

LYMAN, Peter Tompkins. Thermal stresses in ships.

Massachusetts Institute of Technology

KHOUSHY, Dan. Weight strength analysis of cargo ships' structures.

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Agricultural and Mechanical College of Texas

BECKHAM, Paul Miles. Determination of the deflections in triangular-shaped flat plates using complex variables.

University of California, Berkeley

FOX, Jay. Heat transfer in separated flow.

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KING, Hartley Hughes. Hypersonic flow over a slender cone with gas injection.

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PINCHAK, Alfred Cyril. Experimental investigation of gas phase and surface phenomena in a seeded plasma.

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RHODES, Curtis Alvin. Hydrodynamic lubrication of porous bearings.

Case Institute of Technology

DOMHOLDT, Lowell Curtis. The design and performance of a low-turbulence water tunnel.

KOLB, Edwin Richard. High density optical information storage and high speed retrieval.

NICHOLS, Lester Dale. Analytical and experimental determination of the fluid temperature profile in the entrance region of an annular passage considering the effect of convection and radiation.

TROSTMANN, Erik. Digitally controlled programmed bending of metal beams.

The Catholic University of America

NAKONECHNY, Basil V. Frequency equations for the normal modes of vibrations for a plate bounded by parabolic cylinders when rotary inertia and transverse shear are considered.

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LUZZI, JR., Theodore E. Magnetogasdynamics boundary conditions at a conducting wall.

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ROTH, Bernard. A generalization of Burmester theory: nine-point path generation of geared five-bar mechanisms with gear ratio plus and minus one.

SANTIAGO, JR., Joseph M. Mechanics and thermodynamics of continuously dislocated crystals.

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BLANTON, JR., Roy Warner. Flow distribution from manifolds with isothermally heated wall.

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CRAWFORD, Martin. Transient heat conduction in infinite plates situated in a fourth-power radiative environment.

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PURDY, Kenneth Rodman. Viscous fluid flow under the influence of a resonant acoustic field.

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CORLETT, Richard Collister. Heat transfer phenomena in small pool fires.

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ADDY, Alva LeRoy. On the steady state and transient operating characteristics of long cylindrical shroud supersonic ejectors (with emphasis on the viscous interaction between the primary and secondary streams).

DAVIS, Stephen Robert. Investigation of the relationship of ignition delay characteristics of a hydrocarbon fuel to carbon formation.

GAITHER, Robert Barker. Electron distributions in a plasma jet at low pressure.

GOLIK, Raymond John. On dissipative mechanisms within separated flow regions (with special consideration to energy transfer across turbulent, compressible, $Pr=1$, mixing regions).

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Illinois Institute of Technology

JOSEPH, Daniel D. I. On the influence of porous bodies on the slow motion of a viscous fluid. II. Unsteady forced and free convection in vertical annular and annular sector tubes.

MILLER, James Avery. Transition in oscillating Blasius flow.

SALZBERG, Frederick. Mass transfer from a rotating cone in axisymmetric flow.

SCHMIDT, JR., Leo Andrew. Aerothermochemical analysis of one-dimensional unsteady flow phenomena in liquid rocket chambers.

Iowa State University of Science and Technology

JOHNSON, Bruce Leland. Dynamic response characteristics of fluid transmission lines.

LYSEN, John Clifford. Flow in pump and compressor inlet passages.

Kansas State University

CHING-LAI, Hwang. A finite difference analysis of magnetohydrodynamic flow with forced convection heat transfer in the entrance region of a flat rectangular duct.

Lehigh University

BAHAR, Leon Yuda. On an elastostatic problem in nonhomogeneous media leading to coupled dual integral equations.

PROGELHOF, Richard Carl. The rapid discharge of a gas from a cylindrical vessel.

University of Maryland

DAWSON, Victor Charles Douglas. Investigation of the relaxation of the residual stresses in autofrettaged cylinders.

JOHN, James Edward Albert. An investigation of the limits of the metastable liquid state during the adiabatic flow of water in a constant area tube.

WARREN, William Francis. An experimental investigation of fluid forces on an oscillating cylinder.

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- FELDMAN, Charles Lawrence. Estimation of the mean of a random process.
- GRIFFIN, William Stanley. Analytical design and optimization of a pneumatic rate gyro for high temperature operation.
- GUSTAFSON, Robert Duane. Lumped linear limit design of controlled systems.
- HEISER, William Henry. Axial field effects in a magnetically driven shock tube.
- IMAI, Masaya. Boundary lubrication by low-melting-point metals.
- KHABBAZ, Ghassan Raji. On random vibration of systems with nonlinear damping.
- KLIMOWSKI, Peter. Master equation and Kohler's minimum principle.
- LEFCORT, Malcolm David. Wake induced unsteady blade forces in turbomachines.
- LEON, Gonzalo Saenz. Mechanical behavior of solid rocket fuels.
- NEWLAND, David Edward. Nonlinear vibrations: a comparative study with applications to centrifugal pendulum vibration absorbers.
- NORRIS, William Tobias. Thermionic properties of a single crystal of Tantalum exposed to Cesium vapour.
- PETERSON, Carl Richard. Feeding, deagglomerating, and charging small solid particles for colloid propulsion.
- SCHER, Robert Sander. Analysis and design of the reaction-jet motor.
- SUO, Mikio. Two phase flow in capillary tubes.
- UMUR, Aydin. Mechanism of dropwise condensation.
- VAUGHAN, David Rodman. Speed control in hydro-electric power systems.

The University of Michigan

- AYERS, David Lee. The asymptotic behavior of periodic heat transfer to laminar flow in tubes.
- BLANKENSHIP, Victor Dale. The influence of transverse harmonic oscillations on the heat transfer from finite and infinite vertical plates in free convection.
- ESHGHY, Siavash. The effect of longitudinal oscillations on fluid flow and heat transfer from vertical surfaces in free convection.
- LUDEMA, Kenneth C. An investigation of the use of the incident-light phase-contrast microscope in the observation of asperities on metal surfaces.

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- HARRISON, Eugene. Minimum energy space rendezvous.
- HEINSOHN, Robert Jennings. Studies of a flat flame under impressed electric and magnetic fields.

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- GENIN, Joseph. Effect of nonlinear material damping on shaft vibrations.
- KEER, Leon Morris. The contact stress problem for elastically identical spheres.

New York University

- FLAHERTY, Franklin Trimby. Viscoelastic Timoshenko beam vibration.

Northwestern University

- KOUMOUTSOS, Nicholas George. A study of detonation wave structure.

Warder, Richard Currey. Microwave diagnostics of arc heated argon plasma flows.

The Ohio State University

- BOYD, John Mark. The development of generalized compressibility factor data for natural gas mixtures and methods for their use.
- BRIDGE, John Floyd. Skin friction in turbulent pipe flow under the influence of an adverse pressure gradient.
- BROWN, Robert Alan. An investigation of metal-cutting dynamics.
- GHAZI, Hassan Subhi. Effects of upstream flow non-uniformities on orifice meter performance.

University of Pennsylvania

- GOLAND, Leonard. An investigation of the induced velocity in the vicinity of a propeller and its influence on wing lift.
- LIEN, Hwachii. Magnetohydrodynamic boundary layer flow and heat transfer of a slightly conducting fluid past a circular cylinder.
- SOLER, Alan Israel. Application of perturbation techniques to the solution of problems in thermoviscoelasticity.

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- MARGOLIS, David Philip. An investigation of a curved mixing layer.
- REMICK, Forrest Jerome. Hydraulically induced deflection of flat parallel fuel plates.

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- BRADY, Eugene F. The elastic-plastic bending of an elastically-restrained circular plate under a uniformly distributed load.
- KUHN, Earl Charles. Hydrodynamic pressure in a viscous fluid film between axially oscillating parallel circular plates.
- LEIDY, Blaine Irvin. Fully-developed, non-Newtonian, magnetohydrodynamic flow in an infinitely wide flat duct.
- LINDAUER, George Conrad. Analysis of the vaporization of a fluid at its boiling point in a blind cylindrical cavity operating close to the failure point and subject to a uniform surface heat flux.
- MARTENSON, Alfred Johannes. Transient boiling in small rectangular channels.
- MENDES, Walter Roger. On boundary stresses in doubly symmetric holes in large plates subjected to uniaxial and biaxial tension--application of conformal mapping.
- O'DONNELL, William James. Analysis of perforated plates.

- PFENNIGWERTH, Paul Leroy. The application of finite integral transform techniques to problems of continuum mechanics.

- POMERANTZ, Martin Leonard. Film boiling on a horizontal tube in increased gravity fields.

- SCAVUZZO, Rudolph Joseph. Hydraulic instability of flat parallel plate assemblies.

- SCHMIDT, John Edward. Solution of thermoelastic stress problems using finite integral transform techniques.

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- GRETHLEIN, Hans. Time optimal control of nonlinear systems with constraints.
- LEATHRUM, James F. Stability and control of non-linear processes.
- RECK, Russell John. Application of shear lag theory of several typical single stringer-sheet problems.

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- BARNES, Gerald Joseph. Experimental determination of the reaction constants of the dry homogeneous oxidation of carbon monoxide.
- BOWLUS, Daniel Allen. Experimental investigations of the source of unburned hydrocarbons in closed vessel explosions.
- CEZAIRLIYAN, Ared. Prediction of thermal conductivity of metallic elements and their dilute alloys at cryogenic temperatures.
- DE WITT, David Powley. The effect of surface roughness on the normal spectral emissivity of tungsten.
- DIX, Rollin Cumming. Heat transfer in laminar fog flow.
- D'SOUZA, Anthony Frank. Dynamic response of fluid flow through straight and curved lines.
- EMMONS, JR., Donald Leroy. Effects of selected gas stream parameters and coolant physical properties on film cooling of rocket motors.
- FOSTH, Douglas Carl. A method of improving land vehicle handling.
- GLUCK, Rafael. Development of fatigue life index as a criterion for evaluating compressor leaf valve design.
- GOODSON, Raymond Eugene. Viscous and boundary effects in fluid lines.
- HARRISBERGER, Edgar Lee. Gross motions of a space mechanism.
- HITCHCOCK, James Edward. Approximate methods for the calculation of radiant heat transfer in the presence of a gray-nonisothermal gas.
- HOFFMAN, Joe Douglas. An analysis of the effects of gas-particle mixtures on the performance of rocket nozzles.
- JOHNSTON, JR., Roy Charles. Heat transfer and pressure drop of refrigerants evaporating in horizontal tubes.
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- NEUBAUER, JR., Albert Henry. The dynamics of an elastic linkage.
- OKAMURA, Kiyohisa. Optimum nonlinear control of a system with two inputs and one output.
- POWELL, Charles Kendrick. The motion of algae in turbulent flow.
- REBELLO, Wilfred Joseph. Determination of the total vapor pressure of carbon by the effusion cell technique.
- REGENBRECHT, Douglas E. Analytical and experimental study of ice melting by a heated horizontal cylinder.
- SIEGLA, Donald Carl. Temperature distribution and heat losses within a thermoelectric module.
- STOECKER, Wilbert Frederick. Transient behavior of thermoelectric refrigerators under step changes in current.
- UKRAINETZ, Paul Ruvim. Compressor valve stress studies in conjunction with accelerated life tests.
- VACROUX, André Georges. On finding quadratic factors of polynomials.
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- MASSOUD, Monir F. Mechanics of flexible shafts.

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SARSTEN, Arthur. Internal combustion engine vibration problems.

SNECK, JR., Henry J. Externally pressurized, porous wall, gas lubricated journal bearing.

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YOUNGBLOOD, James L. Plastic deformation of molybdenum single crystals in direct shear.

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CHOBOTOV, Vladimir. Nonlinear response of a circular membrane to acoustic excitation.

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ADARKAR, Dilipkumar Bhalchandra. Heat transfer in wakes.

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HARRIS, Kent Karren. The $V^{81}(p,n)Cr^{81}$ reaction as an absolute source of kev neutrons and the $Au^{197}(n,\gamma)Au^{198}$ cross section in the kev region.

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Stevens Institute of Technology

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HOSNY, Ahmed Nabil. Performance analysis of electrical propulsion systems with application to an arc electrical-chemical hybrid system.

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MURPHEY, JR., Carey Epps. Frequency response of air temperature in a blow-down wind tunnel.

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BRUNDRETT, Ewart. The production and diffusion of vorticity in channel flow.

MANSOUR, William Mittias. The establishment, verification and interpretation of nonlinear mathematical models for the dynamic action in pneumatic controllers.

MILLER, Charles Henry. Plasma generation and control. The magnetoplasmadynamics of a rotary arc plasma generator.

VANDEVEGTE, John. The interaction problem in multivariable feedback control systems as related to shaft balancing.

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McDERMOTT, Clifton Eugene. Wave front solutions in linear and nonlinear media.

Washington University

BERTELSON, Peter Clark. Heat transfer in porous media.

University of Washington

FREA, JR., Ward John. Mechanisms for increasing the peak heat flux in boiling saturated water at atmospheric pressure.

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COLLINS, Robert Neil. A mathematical analysis of the stability of two wheeled vehicles.

GYOROG, Donald Alex. A generalized virial equation of state.

LESTZ, Samuel Saul. Velocity of sound isotherms and the virial equation of state.

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POURING, Andrew Alexander. An experimental and analytic investigation of homogeneous condensation of water vapor in air during rapid expansions.

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AUSTIN, Arthur LeRoy. Transient stress distribution in a rapidly heated rod.

MOTE, JR., Clayton Daniel. Effect of in-plane stresses on the vibration characteristics of clamped-free discs.

TAYLOR, Robert Leroy. Problems in thermo-viscoelasticity.

California Institute of Technology

INTAGLIETTA, Marcos. Streaming birefringence study of the interactions of submicroscopic particles.

Case Institute of Technology

GARIBOTTI, Joseph Fortunato. The longitudinal bending and flexure of a conical shell.

LU, Pau-Chang. Rayleigh's problem in magneto-gasdynamics.

University of Colorado

FORAL, Ralph Francis. The stability of an annular plate of strain hardening material.

SINHA, Saradindu Narayan. Analysis of large static and dynamic deflections of plates on elastic foundations.

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TSUEI, Yeong-ging. Axisymmetric boundary-layer of a jet impinging on a smooth plate.

Columbia University

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University of Illinois

ADAMS, Donald Frederick. An analysis of the torsional rigidity of an intermittently stiffened I beam.

BENNETT, Philip Earl. Low temperature yield behavior of the body-centered cubic transition metals.

BOCKMAN, Kenneth Ronald. A study of local effects in the torsion of elastic circular cylinders.

BOWER, JR., John Elliott. Stress concentrations around cutouts in shells of revolution.

COOK, Robert Davis. A mechanics analysis of coupled tube sheets.

DOHSE, Fritz Egbert. A problem of the notched half plane in the mathematical theory of elasticity.

LEE, Shun-Ku. Torsional waves in cylindrical rods.

PATNAIK, Nityananda. Creep of circular section torsion-tension members under nonproportionate loading.

PAUL, Stanley Langford. Interaction of plane elastic waves with a cylindrical cavity.

PLACEK, Ronald John. Elastic deformation of a gear tooth type protrusion from a half plane.

RAUSCH, Paul Jay. A method for determining stress distribution for plane, multiply-connected regions.

SHARMA, Darbari Lal. An application of hyper-variables to the theory of elasticity.

THOMS, Robert Lee. Stresses in cylinders with an abrupt change in outside diameter.

WILMS, Ernest Victor. Some aspects of transient thermoelastic problems obtained by an iterative procedure.

WILSON, JR., Howard Bagby. A method of conformal mapping and the determination of stresses in solid-propellant rocket grains.

Illinois Institute of Technology

KOELLER, Ralph C. Shear deformation in plates and shells.

LEE, David Allen. A study of inhomogeneous turbulence.

Iowa State University of Science and Technology

ETHINGTON, Robert Loren. Time-related mechanical behavior of red oak in tension and compression perpendicular to a longitudinal-radial plane.

The Johns Hopkins University

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HEKESTAD, Gunnar. Two turbulent shear flows: I. The plane jet. II. The radial jet.

PAO, Hsien-Ping. Three-dimensional magneto-hydrodynamic jet-vortex of a viscous conducting fluid.

Kansas State University

EN-SHIUH, Ueng. Natural frequencies of vibration of a rectangular sandwich panel clamped along all edges.

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Lehigh University

PARIS, Paul C. The growth of cracks due to variations in load.

The University of Michigan

BEATY, David Allison. A theoretical and experimental study of the stability of thin elastic spherical shells.

KAO, Timothy Wu. The phenomenon of blocking in stratified flows.

MATAR, Joseph E. Some flow problems in a porous medium.

WOLF, Louis William. The stability of a gas confined between two rotating cylinders.

Michigan State University

CONNERS, Gary Hamilton. A theoretical study of the interaction of an edge dislocation with a coated crystal boundary.

KROLL, Robert James. Stress waves in test specimens due to simulated acoustic emissions.

The University of Nebraska

MARCHERTAS, Algirdas Henry. Analysis for deformation of a nuclear reactor grid structure.

Northwestern University

KIUSALAAS, Jaan. On toroidal shells under axially symmetrical loading.

PERALTA, Luis Arturo. Initial response of a fluid filled, elastic, infinitely long circular cylindrical shell to a shock wave traveling in the surrounding acoustic medium.

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The Ohio State University

CHIN, Paul B. The attitude motion and stability of a spinning satellite under the influence of the earth's gravity gradient torque.

FOYE, Raymond Leo. Difference equations and elastic plates.

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KOZIK, Thomas Joseph. A general theory of thin elastic shells for isotropic and orthotropic materials.

The Pennsylvania State University

COWIN, Stephen Corleen. Mechanics of cosserat continua.

HUANG, Yun-Kuang. Shock waves in hypervelocity impact of metals.

PILKEY, Walter David. Integrals of singularity functions and applications to the mechanics of deformable solids.

PYTEL, Andrew. Shear impact and plug formation in plates.

RODGERS, Edward John. Real flow over a body of revolution at angle of attack.

SEVIK, Maurice. The lift on an oscillating body of revolution.

Polytechnic Institute of Brooklyn

MOSKOWITZ, Samuel E. Approximate techniques of optimization problems in space mechanics.

Rensselaer Polytechnic Institute

HO, Chung Y. Heat transfer characteristics of fluids moving in a Taylor system of vortices.

Stanford University

ACHENBACH, Jan Drewes. Wave propagation in a three-parameter viscoelastic medium.

BEAL, Thomas Reynolds. Dynamic stability of a uniform free-free beam under a gimbaled thrust of periodically varying magnitude.

CHENEY, James Addison. The bending and buckling of ring stiffeners for shells.

DeBRA, Daniel Brown. The large attitude motions and stability, due to gravity, of a satellite with passive damping in an orbit of arbitrary eccentricity about an oblate body.

FIELD, Forest Arlen. Plastic energy dissipation in crack propagation: applications of a hypothesis by Dugdale.

HEATON, Howard Spring. Heat transfer with laminar flow in concentric annuli with constant heat flux and simultaneously developing velocity and temperature distributions.

HUTCHINSON, James Richard. Vibrations of viscoelastic bars.

KELLY, James Marshall. Moving load problems in the theory of viscoelasticity.

McIVOR, Ivor Keen. Dynamic stability and nonlinear oscillations of cylindrical shells (plane strain) subjected to impulsive pressure.

PAXSON, JR., Ernest Birdsall. Boundary value problems in the theory of shallow cylindrical shells.

RAMSEY, Hilton. Problems of related elastic and viscoelastic buckling in one and two dimensions.

TITUS, JR., Harold Arthur. Optimum and quasi-optimum control of third- and fourth-order systems.

YOUNG, JR., John William. Singular solutions for non-shallow dome shells.

State University of New York
College of Forestry at Syracuse University

PERKINS, JR., Richard W. Plane elastostatic theory of dislocations in anisotropic media.

The University of Texas

AUSTIN, Robert Neil. Application of Reissner's variational principle to the static and dynamic analysis of a built-up plate.

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University of Utah

JAN, Hsiung-Tai. Some problems in the bending of a thin plate.

Virginia Polytechnic Institute

COLLIER, JR., Melvin Lowell. Theoretical investigation of the second shock in the blast wave.

FRALICH, Robert William. Stress analysis of a panaglider wing.

QUEIJO, Manuel Jack. A theory and method of predicting the stability derivative C_{lB} , C_{lr} , C_{np} , and C_{yp} for wings of arbitrary planform in subsonic flow.

Washington University

HANSEN, Peter Gardner. Residual stress systems created by inclusions in multiphase materials.

The University of Wisconsin

ALWAN, Abdul Mehsin. Large and small deflection analyses applied to rectangular sandwich plates with orthotropic cores.

HO, Benjamin Piao-Cheng. Stability of heterogeneous aeolotropic cylindrical shells under combined loading.

LITTLE, Robert William. Semi-infinite elastic strip problem.

Metallurgy

University of Alberta

POLING, George Wesley. Infrared studies of adsorbed xanthates.

University of Arizona

NELSON, Roger Raymond. A study of electrodeposition of metals from aqueous solutions using mercury cathodes.

University of California, Berkeley

BOKROS, Jack Chester. The mechanism of the martensite burst transformation in single crystals of iron containing 31.7 per cent nickel.

CHANG, Yong-Shan Austin. Dilatation contribution to heat capacity of metals and alloys.

GALLIGAN, James Martin. Quench hardening in copper.

NOLDER, Richard Lowell. Substructures in plastically deformed nickel.

RAYMOND, Louis. Recovery of creep resistant substructure.

TINDER, Richard Franchere. Factors affecting the initiation of plastic flow in metals.

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GRETZ, Ronald David. Vapor-solid nucleation.

GROZIER, John David. The growth of austenite into ferrite in the iron-nitrogen system.

HRUSKA, Samuel Joseph. Effect of thermal energy of metallic vapor beams on deposition behavior.

JAFFE, Donald. Thermal diffusion of substitutional impurities in copper, gold and silver.

LEVINSTEIN, Hyman Joseph. The arrangement and density of dislocations in deformed silver single crystals.

LOVE, Gordon Ross. Self-diffusion of silver in twist boundaries.

ROBERTSON, Wayne Marvin. The crystallography of impurity adsorption on copper surfaces.

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- CANN, Ross S.** Recent calcium carbonate facies of the northcentral Campeche bank, Yucatan, Mexico.
- CASELLA, Clarence J.** Geologic evolution of the Beartooth Mountains, Montana and Wyoming. Part 5: the Line Creek area.
- HEASLIP, William G.** Cenozoic evolution of the alitic state veneer cards in gulf and east coastal North America. [Microfilming withheld until 1965.]
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- KAMHI, Samuel Robert.** The crystal structure of vaterite, CaCO_3 .
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- DONOVAN, John Francis.** Geology of the Woman River iron range, district of Sudbury, Ontario, Canada.

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- PILKEY, JR., Orrin H.** Trace elements in recent and fossil mollusk shells.

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- ARISTARAIN, Lorenzo Francisco.** Caliche deposits of New Mexico.
- BELL, Peter Mayo.** Triple point and phase relations in the system Al_2SiO_5 .
- BLUHME, Ulrich Petersen.** Genesis of ore deposits in the Andes of Central Peru.
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- BRETT, Peter Robin.** Experimental data from the system Cu-Fe-S and their bearing on exsolution textures and reaction rates in ores.
- CARPENTER, Alden Bliss.** Mineralogy of the system $\text{Ca}_2\text{O}-\text{Mg}_2\text{O}-\text{CO}_2-\text{H}_2\text{O}$ at Crestmore, California.
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- SOLOMON, Peter John.** Sulfur isotope and textural studies in two conformable sulfide deposits.

- SWINCHATT, Jonathan Phillip.** The significance of textural variation and skeletal breakdown in some recent carbonate sediments.

- SZEKELY, Thomas Steven.** The geology of the Puquina-Omate Area, southern Peru.

- TRUESDELL, Alfred Hemingway.** The study of natural glasses through their behavior as membrane electrodes.

- TAGGART, James Nash.** Geology of the Mount Powell Quadrangle, Colorado.

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- CGGAN, Norbert Everett.** Cambrian and Ordovician conodonts from the Big Horn Mountains, Wyoming.

- EADES, James Lynwood.** Reaction of $\text{Ca}(\text{OH})_2$ with clay minerals in soil stabilization.

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- HEIM, JR., George Edward.** The Pleistocene and engineering geology of the Hannibal-Canton area, Missouri.

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- JOHNSON, William Hilton.** Stratigraphy and petrography of Illinoian and Kansan drift in central Illinois.

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- McGUIRE, Odell S.** Population studies in the ostracode genus *Polytylites* from the Chester series.

- MOORE, Duane Milton.** Selected trace elements of the white pine group, eastern Nevada.

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- ODOM, Ira Edgar.** Clay mineralogy and clay mineral orientation of shales and claystones overlying coal seams in Illinois.

- SODERMAN, Jarmo Georg William.** Petrography of algal bioherms in the burnt bluff group (Silurian), Wisconsin.

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- WILSON, III, William Edward.** The geology of the piedmont slopes in the Winnemucca area, Nevada.

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- BROWN, JR., George Donald.** Trepostomatous bryozoa from the logana and jessamine limestones (Mohawkian) of the Kentucky Bluegrass region.

- CLEVELAND, John Herbert.** Paragenesis of the magnesite deposit at Gabbs, Nye County, Nevada.

- DeRUDDER, Ronald Dean.** Mineralogy, petrology, and genesis of the Willsboro wollastonite deposit, Willsboro Quadrangle, New York.

- LEBAUER, Lawrence Robert.** Petrology of the Wolsey shale and Meagher formation (middle Cambrian) of southwestern Montana.

- MOUND, Michael Charles.** Arenaceous forami-

- niferida from the Silurian rocks of northern Indiana.

- RESHKIN, Mark.** Geomorphic history of the Jefferson Basin, Jefferson, Madison and Silverbow Counties, Montana.

- RUDMAN, Albert Julius.** A study of seismic reflections from the surface of the basement complex in Indiana.

- SUNDERMAN, Jack Allen.** Mineral deposits at the Mississippian-Pennsylvanian unconformity in southwestern Indiana.

- UTGAARD, John Edward.** Trepostomatous bryozoan fauna of the upper part of the Whitewater formation (Cincinnatian) of eastern Indiana.

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- CHOWN, Edward Holton Macphail.** Amphibolites of the Papachouesati River area, Mistassini Territory, Quebec.

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- FISHER, George Wescott.** The petrology and structure of the crystalline rocks along the Potomac River, near Washington, D. C.

- JONES, Blair Francis.** Hydrology and mineralogy of Deep Spring Lake, Inyo County, California.

- McDOWELL, John Parmelee.** A paleocurrent study of the Mississagi Quartzite along the north shore of Lake Huron.

- PROSTKA, Harold John.** Geology of the Sparta Quadrangle, Oregon.

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- DUANE, David Bierlein.** Petrology of recent bottom sediments of the western Pamlico Sound region, North Carolina.

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- POOSER, William Kenneth.** Cenozoic biostratigraphy and ostracoda of South Carolina.

- RONCA, Luciano Bruno.** Thermoluminescence as a paleoclimatological tool.

- SORAUF, James E.** Structural geology and stratigraphy of the Whitmore Area, Mohave County, Arizona.

- VAN SANT, Jan Franklin.** The Crawfordsville crinoid fauna of Indiana.

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- BIGGS, Robert Bruce.** Deposition and early diagenesis of modern Chesapeake Bay muds.

- MENTZER, Thomas Cartwright.** Composition trends in a folded gneissic layer, Sussex County, New Jersey.

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- DIXON, Mark Adrian.** Experimental bias associated with loose grain measurements.

- HAZEL, Joseph Ernest.** Part I. Systematics of some Gulfian Trachyleberids from Texas and Arkansas. Part II. Ostracode biostratigraphy in some Austinian Tayloran rocks.

- HOWARD, C. Edward.** Petrography of the Jackfork Sandstone at DeGray Dam, Clark County, Arkansas.

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- MC EWEN, Michael C.** Sedimentary facies of the Trinity River Delta, Texas.
- RICHARDSON, Keith A.** The radioactivity, sites of alpha emitters, and radioactive disequilibrium in the Conway granite of New Hampshire.

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- MORRIS, Elliot Cobia.** Mineral correlations of some Eocene sandstones of central California.
- MURSKY, Gregory.** Mineralogy, petrology and geochemistry of Hunter Bay area, Great Bear Lake, N. W. T., Canada.
- NOBLE, Donald Charles.** Mesozoic geology of the Southern Pine Nut Range, Douglas County, Nevada.
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- KLAPPER, Gilbert John.** Upper Devonian and Lower Mississippian conodont zones in Montana, Wyoming, and South Dakota.
- MOYLE, Richard W.** Ammonoids of Wolfcampian age from the Glass Mountains and contiguous areas in West Texas.
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- WARNER, Mont Marcellus.** Sedimentation of the Duchesne River Formation, Uinta Basin, Utah.

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- BROWN, Thomas Edwards.** Cation exchange reactions on size-fractionated montmorillonites.
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- FREEMAN, JR., Thomas Jewell.** Carboniferous stratigraphy of the Brady area, McCulloch and San Saba counties, Texas.
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- UNDERWOOD, JR., James Ross.** Geology of Eagle Mountains and vicinity, Trans-Pecos Texas.

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- HUTCHISON, William Watt.** Conditions of metamorphism of certain rocks as indicated by solid inclusion decrepitation.
- MILNE, Victor Gordon.** The petrography and alteration of some spodumene pegmatites near Beardmore, Ontario.

- MIRYNECH, Edward.** The Pleistocene geology of the Trenton-Campbellford map-area, Ontario.

- OLLERENSHAW, Neil Campbell.** Stratigraphic problems of the western Shickshock Mountains in the Gaspe Peninsula.

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- BENVEGNU, Carl Jerome.** Stratigraphy and structure of the Croyden-Henefer-grass valley area, Morgan and Summit counties, Utah.
- MILLER, Clarence Lowell.** The use of gaseous thermal medium in the thermal decomposition of oil shale.
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- TANIS, James Iran.** Isostasy and crustal thickness in Utah and adjacent areas as revealed by gravity profiles.
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- COETZEE, Gerrard Louis.** The origin of the sangu carbonate complex and associated rocks, Karema depression, Tanganyika territory, east Africa.

- FELLOWS, Larry Dean.** Geology of the western Windingstair range, Latimer and LeFlore counties, Oklahoma.

- FINNEY, Joseph Jessel.** The crystal structures of carmine and authigenic maximum microcline.

- GORE, Dorothy Jean.** Potash metasomatism in granitization as illustrated in the rocks of the Niagara and Neillsville areas of Wisconsin.

- HALPERN, Martin.** Cretaceous sedimentation in base O'Higgins area of northwest Antarctic peninsula.

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- LAUDON, Thomas Stanzel.** The geology of the Lochaber district, Queensland, Australia.

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State University of Iowa

LUTHER, Norman Yeomans. Quadratic forms in normally distributed variables.

SHEKOURY, Raymond Nejib. The \mathcal{L} -system and postnikov invariants of a CW-complex.

TANIS, Elliot Alan. Linear forms in the order statistics from an exponential distribution.

TIEMENS, Robert Kent. The comparative effectiveness of sound motion pictures and printed communications for the motivation of high school students in mathematics.

State University of New York at Buffalo

ROZYCKI, Eugene Paul. On Egoroff's theorem.

USCHOLD, Richard Louis. Topological C-spaces.

WALBESSER, William John. The structure of a partial ordering of channels in information theory.

Stevens Institute of Technology

HELM, Harry Arthur. On exponential type solutions of systems of linear differential equations.

HILL, David Byrne. Systems of linear differential equations and generalized exponentials.

MACY, James Richard. Theory of serial codes.

NICHOLS, Leonard Frank. The application of Pontryagin's maximum principle to the minimum time problem for relay control systems.

Syracuse University

PETERSON, Bruce. Formal contraction and some generalizations of convexity.

PULLMAN, Norman J. On the number of positive entries in the powers of a non-negative matrix.

The University of Tennessee

DAVIS, Kenneth Joseph. A generalization of the dirichlet product of arithmetical functions.

SHAIKH, Mohammad Yusuf. Semigroups with operators.

STEWART, Donald George. Cellular subsets of the three-sphere.

The University of Texas

CALDER, James Richard. Concerning completely convex sets.

COOK, Howard. On the most general plane closed point set through which it is possible to pass a pseudo-arc.

CORNETTE, James Lawson. Continuumwise accessibility.

DARWIN, JR., James Thomas. Some theorems on functional analysis.

EHRLICH, Louis William. The block symmetric successive overrelaxation.

FALBO, Clement Earl. Some generalized Green's functions.

HADDAD, Hadi M. H. Convergent chain sequences.

JOLLY, Robert Franklin. Concerning a functional inequality.

REICHARDT, Richard William. The integral of a function with respect to a function pair.

STOKES, Russell Aubrey. An integral of a function with respect to a function in a rectangular interval.

University of Toronto

BROWN, William Gordon. Enumerational problems of linear graph theory.

KAKITA, Takao. Theory of hyperbolic distributions.

PUTTASWAMAIAH, Bannikuppe Mayigowda. Group representations (alternating and generalized symmetric groups).

WHITE, George Kerr. Algebra and the theory of numbers.

Tulane University

ALFORD, William Robert. Some wild embeddings of the one and two dimensional spheres in the three sphere.

HIGHTOWER, Collin James. On the minima of real indefinite binary quadratic forms.

HUDSON, Sigmund Nyrop. Topological loops with invariant uniformities.

WU, Ta-Sun. Some topics in topological algebra.

DOCTORAL DISSERTATIONS 1962-1963

University of Utah

- BELINNE, Francis. Wirtinger type integral inequalities.
- GILLETTE, Richard Morris. The space of continuous homeomorphisms of the 2-cell.
- EASTON, Richard Jensen. On the existence almost everywhere of the cross partial derivatives.
- NATH, Radha Gobinda. An asymptotic formula for partitions.
- PETERSON, Gerald E. The proofs of Ostrowski's theorem of overconvergence.
- UHERKA, David Jerome. Characteristic functions and distributions in R^2 .
- WONG, See Bon. Fabry's gap theorem.
- YOUNG, Paul Alfred. Numerical solution of linear difference equations.

Vanderbilt University

- DEPEW, Rex Denwil. Lagrange resolvent transformations of finite ordered point sets in the complex plane.

University of Virginia

- HALEY, Joseph Arnold. On a certain spectral sequence.
- KRALL, Allan Morton. Inhomogeneous solutions and eigenfunction expansions in L^2 concerning a second order ordinary differential equation.
- LEMMON, Charles Walker. Power and exponential maps of Lie groups.

Virginia Polytechnic Institute

- DUNN, James Eldon. Power characteristics of Kramer's method for analysis of variance of a two-way classification with disproportionate subclass numbers.
- GIBBONS, Jean Dickinson. The small-sample power of some nonparametric tests.
- KRAUSE, Gary Frederick. Functional observations: a biostatistical study of growth.
- SMITH, JR., Armand Verne. Comparison of two drugs by multiple stage sampling using Bayesian decision theory.

Washington University

- MAHONEY, Richard Thomas John. On Howarth endomorphisms.

University of Washington

- ARGABRIGHT, Loren Neil. Invariant means of topological semigroups.
- CRASWELL, Keith Jamie. Density estimation and estimation of a selection function.
- FRODERBERG, Albert John. A class of convolution algebras.
- HEWITT, Gloria Conyers. Direct and inverse limits of abstract algebras.
- KOEHLER, John Edward. The type set of a torsion free group of finite rank.
- MOCHIZUKI, Horace Yomishi. Finitistic homological dimensions and duality theory for rings.
- WEISS, Max Leslie Chase. J-nets and cluster values of bonded functions.

Wayne State University

- VOLLMER, John Edward. Semi-cubical homotopy theory of Kan Triads I.

The University of Wisconsin

- BECHTELL, JR., Homer Franklin. Elementary groups.
- BROWN, Robert Freeman. Generalized n-plane bundles with applications to path fields on manifolds.
- CARLSON, David Hilding. Rank and inertia theorems for matrices: the semi-definite case.
- CASLER, Burris G. On the sum of two solid Alexander horned spheres.
- GREENWOOD, Priscilla Irene. The convolution equation over a compact real interval for some special kernels.
- HANNA, Martin Slafter. A coerciveness inequality for second-order elliptic operators in polyhedra.
- KRAUSE, Eugene Franklin. On the restricted Burnside problem and theorems like Sanov's.
- LAZIER, Nora Elizabeth. Simple commutative nonassociative algebras satisfying a polynomial identity of degree five.
- LYNCH, William Charles. Ambiguities in backus normal form languages.
- MOSCHOVAKIS, John Nicolas. Recursive analysis.
- MOURSUND, David Garvin. Optimal approximation of functions: Chebyshev-type approximations.
- NIELSEN, George Marius. A determination of the minimal right ideals in the enveloping algebra of a lie algebra of classical type.
- PAIN, Dwight Milton. Some grouplike properties of partition systems.
- PILGRIM, Donald Harry. Engel conditions on groups.
- THAMPURAN, N.R. Derikumara Varma. Studies in extended topology.
- THOMPSON, Maynard Dewayne. Approximation by polynomials whose zeros lie on a curve.
- TULLEY, Patricia Ann. I. On regularity in Hurewicz fiber spaces. II. On acyclic kernels in chain complexes.
- WALTER, Gilbert Gustav. Expansions of distributions.
- WESTON, Kenneth William. Z-A groups which satisfy the M-th Engel condition.

Yale University

- BARNES, Richard Thomas. On derivation algebras and lie algebras of prime characteristic.
- GLENNIE, Charles Milne. Identities in Jordan algebras.
- GREENBLATT, Robert. Homology with local coefficients and characteristic classes of vector bundles.
- GULICK, 3rd, Sidney Lewis. The bidual of a locally multiplicatively-convex algebra.
- MCCORD, Michael Campbell. Inverse limit systems.
- RAJAGOPALAN, Minakshisundaram. L^p -spaces and convolution in locally compact groups.
- ROVNYAK, James Leo. Some Hilbert spaces of analytic functions.
- SMITH, David Alexander. On Chevalley's method in the theory of lie algebras and linear groups of prime characteristic.

Yeshiva University

- BAGNATO, Robert Anthony. Gevrey classes and hypoellipticity.

MICROBIOLOGY

Baylor University

- NORMAN, James Oliver. Stimulation of the *in vitro* growth of mycobacteria by egg yolk fractions, coenzymes Q and vitamins K.
- ROTH, Ivan Lambert. An electron microscopic study of virulent and avirulent *Bacillus anthracis* in mouse spleen. Volume I and II.

University of California, Davis

- MAH, Robert Anthony. *Ophryoscolex purkynei*, its culture and physiology.

University of California, Los Angeles

- BRABANDER, Wayne John. Genetic and physiological studies with *Bacillus subtilis*.
- CARLBERG, David Marvin. Studies of the physiology of bacteriophage infected *Mycobacterium smegmatis* 607.
- LAVENDER, John Francis. The effect of carbon dioxide and other drugs on the passage of viruses into the central nervous system (the blood brain barrier).
- LEWIS, William Perry. A study of the hemagglutination test in toxoplasmosis and amebiasis.
- LORENZ, Douglas Eugene. The effect of subtilin on Newcastle disease virus.
- MANCLARK, Charles Robert. *Vibrio fetus* studies.
- PUHVEL, Sirje Madli. Studies on staphylococcal L-forms.
- RUSSELL, Ruth Lois. Lysogeny in the mycobacteria.
- SHADOMY, Helen Jean. Studies on the genus Nocardia.
- SHADOMY, Smith. Cytological studies of bacteriophage infection in the mycobacteria.
- VREDEVOE, Donna Lou. The production and transfer of immune reactions to bovine serum albumin in isogenic and non-isogenic mice.

University of Chicago

- CIRCO, Richard. The effect of antibiotics on the free amino acid pool in fungi isolated from soil.
- CURTIS, III, Roy. Studies on the genetics of *Escherichia coli*.
- JONES, Dorothy. A study of the catalase activity of two strains of *Streptococcus faecalis*.
- SCHWARTZ, Norman Martin. Ethyl methanesulfonate and ultraviolet light induced mutations of the Lac locus of *Escherichia coli* K-12.
- WILKOFF, Lee J. Studies on the biosynthesis of trans-1-epoxysuccinic acid by *Aspergillus fumigatus*.

University of Cincinnati

- BULMASH, Jerome Maurice. Immunological studies of culture filtrates from *Shigella* types.

University of Colorado

- LUEKER, David Charles. Secondary precipitation in immunodiffusion tests.

Columbia University

- MAGE, Rose C. Immunochemical studies on dextrans. The specificities of rabbit antidextrans. And the combining regions of the type III pneumococcus polysaccharide & homologous antibody.

MINERALOGY

- Georgetown University**
- TENNANT, Raymond W. Studies in pneumonia virus of mice (PVM) in an *in vitro* cell system and in its natural host.
- The George Washington University**
- HOPTMAN, Julian. Association of stimulation and depression of parasympathetic nervous system activity with hemagglutination-inhibition response in albino rats.
- SUITOR, JR., Earl Carlyle. The biology of rickettsialike microorganisms.
- Hahnemann Medical College and Hospital**
- DEPUE, JR., Robert Hemphill. The relationship of penicillin structure to penicillinase activity.
- SPITZER, Judy Aranka Gottfried. Lipid-amino acid complexes in the course of antibody synthesis *in vitro*.
- University of Illinois at the Medical Center**
- ZUSSMAN, Ronald Alan. Aromatic biosynthesis in *Trichophyton rubrum*.
- University of Kentucky**
- GRUBER, Jack. Attempts to produce rheumatic fever and to determine the role of hypersensitivity in its pathogenesis.
- JOHNSON, Roger W. *In Vitro* hypersensitivity of guinea pig leukocytes to tuberculin following passive transfer, leukopenia, and sensitization with heat-killed *Mycobacterium tuberculosis* H37Rv.
- University of Massachusetts**
- RUSSELL, Warren Jene. Studies on the effects of radiation on antibody production against *Shigella paradyenteriae* in rats.
- University of Miami**
- CLEM, Lester William. Virological and immunological studies of marine fish.
- University of New Hampshire**
- SCHMIDT, Jerome Paul. The effect of hibernation on the host-parasite relations in the Arctic ground squirrel.
- New York University**
- REDLICH, George. The effect of standing at mild alkaline pH on the structure of myosin.
- The University of Oklahoma**
- BOWMAN, JR., Bernard Ulysses. Neutralization of bacteriophage ϕ X174 by rabbit antibody.
- MORGAN, Paul Nolan. The effects of buffers and carbon dioxide deficiency on the multiplication of herpes simplex and vaccinia viruses in HeLa cell cultures.
- WEST, Billy. The effect of sodium chloride on staphylococcus-phage relationships.
- Oregon State University**
- EL-BADAWI, Ahmed Adel Ismail. The nature of hydrative changes and cationic shifts in the over-tenderization of beef muscle resulting from irradiation.
- KILBOURN, Joan Priscilla Payne. Use of a radiation resistant organism as a protectant from lethal effects of irradiation in mice.
- University of Pennsylvania**
- LEE, Jong Sun. Investigations of factors influencing radiation resistance of *Micrococcus radiodurans*.
- RODRIGUEZ, José Enrique. Persistent infection of L cells with Newcastle disease virus: the initial stages of infection.
- TUMILOWICZ, Joseph John. Studies on poliomyelitis virus: antibody responses in guinea pigs and characterization of fractionated populations.
- WILKINS, Peter Osborne. Sugar transport in *Streptococcus faecalis*.
- University of Pittsburgh**
- GAUSH, Charles Richard. Studies on the lipids of cells infected with vaccinia virus.
- HENRY, Helen Claudia. Studies on the structure and replication of the nucleic acid of poliovirus.
- NORDIN, Albert Andrew. The use of mononuclear cells in the production of hypersensitivity to purified protein derivative and bovine gamma globulin.
- The University of Rochester**
- BLACKMORE, Robert Valentine. Propagation of *Herpesvirus hominis* in L cell cultures.
- FRICKY, Paul Henry. Growth of influenza virus in fibroblastic and epithelial-like cultures derived from chick embryo lung tissue.
- The Rockefeller Institute**
- COOPER, Stephen. Biochemical and biological studies on the growth of an RNA-containing bacteriophage.
- Rutgers - The State University**
- ESTRADA-PARRA, Sergio. Immunochemical studies of the capsular polysaccharide of type XVIII pneumococcus.
- POKALLUS, Reginald Stephen. Toxicity of nitrite to *Nitrosomonas europaea*.
- REISS, Alice Margaret. The interaction of complement with specific immune precipitates.
- RIGHTHAND, Vera Fay. Biological and biochemical heterogeneity of rous sarcoma virus preparations.
- RUIZ-HERRERA, Jose. Microbial degradation of methionine.
- SCHILLINGS, Roger T. Chemistry of the neomycins and the neomycin-like antibiotics.
- St. John's University**
- OLENIACZ, Walter S. The production, isolation, purification, and characterization of a cephalosporium protease.
- State University of Iowa**
- SHAW, Eugene Douglas. Some characterization investigations of the brown virus: Part I. Phagocytosis study. Part II. Fluorescence microscopy.
- Syracuse University**
- ALPER, Richard Elliott. The characterization of poly-beta-hydroxy-butyric acid from *Bacillus cereus*.
- BOTT, Kenneth F. The application of a sulfur requiring mutant of *Bacillus cereus* to the study of bacterial sporulation and spore resistance.
- University of Toronto**
- TAYLOR, Joyce. Studies on the purification and properties of two RNA-containing viruses with particular reference to the fractionation of particles in poliovirus suspensions.
- University of Utah**
- MARTIN, William Jeffery. Relation of pyrogenic and emetic properties of enterobacteriaceal endotoxin and of staphylococcal enterotoxin.
- SIDWELL, Robert. Experimental studies of latent Q fever infections.
- THORPE, Bert Duane. Mechanisms of resistance in *Pasteurella tularensis* infections.
- University of Virginia**
- ACTON, Jean Dofflemoyer. Biochemical, cytochemical and biological studies on respiratory syncytial virus in HEp-2 tissue culture cells.
- Washington University**
- BOSE, Subir Kumar. Studies on electron transfer and energy metabolism in photosynthetic bacteria.
- Western Reserve University**
- MATHIES, Margaret Jean. The antibody response of the rabbit to T² bacteriophage.
- WELKER, Neil Ernest. The biosynthesis of a-amylase by *Bacillus stearothermophilus*.
- YOUNG, Frank E. A study of competence in the *Bacillus subtilis* transformation system.
- Yale University**
- PITTARD, Alfred James. A new f-merogenote of *Escherichia coli* K-12; its origin, properties and transfer by conjugation and by transduction.
- SEED, John Richard. Biological, immunological and chemical properties of antigens isolated from *Trypanosoma rhodesiense*.
- SYPHERD, Paul Starr. Chloramphenicol-promoted repression of b-galactosidase synthesis: the role of RNA.
- WOOD, Elizabeth Adair. An evaluation of the role of vitamin B₁₂ in the marine environment.
- MINERALOGY**
- The University of Michigan**
- SHAPPIRIO, Joel Rez. Geology and petrology of the Tallahassee Creek area, Fremont County, Colorado.
- The Ohio State University**
- TEJEIRA, Boris Reinmar. Studies of kaolinite by infrared absorption.
- The Pennsylvania State University**
- DEUSER, Werner Georg. The effects of temperature and water pressure on the apparent Rb-Sr age of micas.

DOCTORAL DISSERTATIONS 1962-1963

- LUTH, William Clair. The system $KAlSiO_4$ - Mg_2-SiO_4 - SiO_2 - H_2O from 500 to 3000 bars and 800° to 1200°C and its petrologic significance.
- MERRIN, Seymour. Experimental investigations of epidote paragenesis.

Purdue University

- BURNS, Allan Fielding. The role of interlayer cations in micaceous minerals as revealed by x-ray diffraction and infrared absorption studies.

Rensselaer Polytechnic Institute

- OZOL, Michael A. Alkali reactivity of cherts and stratigraphy and petrology of cherts and associated limestones of the Onondaga formation of central and western New York.

Stanford University

- DODGE, Frank Charles. A mineralogical study of the intrusive rocks of the Yosemite Valley area, California.

University of Utah

- COLES, Joan Link. A study of some synthetic apatites.

- VLAM, Heber Adolf Arien. Petrology of Lake Bonneville gravels, Salt Lake County, Utah.

MUSIC

University of Arizona

- LONG, Page Carroll. Transformations of harmony and consistencies of form in the six organ symphonies of Louis Vierne.

Boston University

- BAYNES, John Henry. Scheduling practices of music in small public high schools of the United States.

- BOBBITT, Richard B. The harmonic idiom in the works of "Les Six".

- BOUCHER, Joan Anne. The religious music of Gilles Binchois.

- EKMAN, Gudrun Erna. A study to determine the present status of music education with an emphasis on certain aspects of teaching load in public secondary schools of one hundred or more grade enrollment in New England.

- HEHR, Milton Gerald. Musical activities in Salem, Massachusetts: 1783-1823.

- SCHWADRON, Abraham A. An interpretation of philosophy and aesthetics for contemporary music education.

- SHAUGHNESSY, Robert Michael. Harmonic and contrapuntal elements in selected high school concert band compositions.

- SHELLEY, Warren W. An evaluation of the preparation for positions in supervision of music education in cities over 300,000 population.

- VAN ESS, Donald Harrison. The stylistic evolution of the English brass ensemble.

University of California, Berkeley

- HERSH, Donald Lee. Verdelot and the early madrigal.

University of California, Los Angeles

- BIALES, Albert. Sonatas and canzonas for larger ensembles in seventeenth-century Austria.
- DI CHIERA, David. The life and operas of Gian Francesco de Majo.
- PASELLA, Margaret. The piano music of Ernst Toch.

The Catholic University of America

- SHAW, Gertrude Jean. The Violoncello Sonata literature in France during the eighteenth century.

University of Chicago

- DEHNERT, Edmund J. Music and neo-scholasticism.
- KAUFMANN, Edward Burton. Music as mimesis: a syncretistic analysis.

University of Colorado

- SCHOEP, Arthur Paul. A singing translation in English of Giambattista Casti's libretto for Giovanni Paisiello's opera, *Il Re Teodoro in Venezia* (*King Theodore in Venice*).

- WILEY, Charles Albert. An experimental study of tachistoscopic techniques in teaching rhythmic sight-reading in music.

Columbia University

- HERRMANN, JR., William A. Religion in the operas of Giuseppe Verdi.
- KATZ, Ruth T. The origins of opera: the relevance of social & cultural factors to the establishment of a musical institution.
- SANDERS, Ernest H. Medieval English polyphony and its significance for the continent. [Microfilming withheld until 1965.]

Columbia University Teachers College

- ALBRIGHT, Joe N. The administration of summer music programs in school systems in the United States.

- ALTON, Louise Miller. An examination of the general music program in the jr. high schools of East Baton Rouge parish, Louisiana and recommendations for improvement.

- BUFFKINS, Archie Lee. A proposed program for improving the music department of Jackson State College, Jackson, Mississippi.

- CARINGI, Joseph John. The clarinet contest solos of The Paris Conservatory; with a performance analysis of selected compositions.

- EISENKRAMER, Henry Edward. Peter William Dykema. His life and contribution to music education.

- GOETZMANN, Edward Charles. An investigation of specific factors related to minor performance area classes in music education curricula.

- GOINES, Leonard. Music and music education in predominantly Negro colleges and universities offering a four-year program of music study terminating in a degree.

- HEIER, Dorothy R. Selected twentieth-century compositions for trumpet.

- JACKSON, Marjorie. The oboe: a study of its development and use.

- JANSZEN, Royce Henry. The organization and administration of off-campus student teaching in music at selected institutions.

- LATHEROW, Robert Lee. An overview of the teaching of vocal music in secondary schools.

- MONELLO, Spartaco V. Sinfonia Accademica.

- NELSON, Cecelia R. Televised music instruction.

- SALATINO, Anthony J. Certain physical problems in playing the double bass.

- SCHMIDT, Liselotte. An introduction to the contrapuntal practices of vocal polyphony of the late sixteenth century.

- SCHWARTZ, Elliott Shelling. The symphonies of Ralph Vaughan Williams (an analysis of their stylistic elements).

The University of Connecticut

- GROFF, Frank Henry. Effect on academic achievement of excusing elementary school pupils from classes to study instrumental music.

Cornell University

- SAMUEL, Harold Eugene. The cantata in Nuremberg during the seventeenth century.

The Florida State University

- BODA, Daniel. The music of Charles T. Griffes.
- BROUCEK, Jack Wolf. Eighteenth century music in Savannah, Georgia.

- FOX, Leland Stanford. A classic style in French opera (1750-1825).

- GABRIEL, Ralph. Music education and state supervisory services for Tennessee public schools.

- GERSCHEFSKI, Peter Edwin. The thematic, temporal, and dynamic processes in the symphonies of Jean Sibelius.

- MADSEN, Clifford K. The effect of scale direction on pitch acuity in solo vocal performance.

- RHINEHART, JR., Charles Bennett. Incidence and causes of withdrawal from public school music teaching.

- SMITH, Robert. Cultural activities in ten Florida cities.

George Peabody College for Teachers

- THOMPSON, James William. Music and musical activities in New England, 1800-1838.

Harvard University

- CHURGIN, Bathia Dina. The symphonies of G. B. Sammartini.

- CRAWFORD, John Charlton. The relationship of text and music in the vocal works of Schoenberg, 1908-1924.

University of Illinois

- BAKER, Robert Allen. A statistical analysis of the harmonic practice of the 18th and early 19th centuries.

- BUSCHE, Henry Edward. The history of high school choral activities in three selected cities of the United States.

- CURTIS, Alan Stanley. Sweelinck's keyboard works: a study of English elements in Dutch secular music of the *Gouden Eeuw*.

- FARISH, JR., Stephen Thomas. The Vauxhall songs of Thomas Augustine Arne.

- HARRISON, Ruthann. A program for the preparation of choral directors.

- HILL, Double E. A study of tastes in American church music as reflected in the music of the Methodist Episcopal Church to 1900.

- LUTZ, Warren William. The personality characteristics and experiential backgrounds of successful high school instrumental music teachers.

- SIMMONS, Donald William. The motivations and musical backgrounds of participants and non-participants in selected community choruses.

MUSIC

WEBER, Calvin Earl. The contribution of Albert Austin Harding and his influence on the development of school and college bands.

WILLHEIM, Imanuel. Johann Adolph Scheibe: German musical thought in transition.

Indiana University

ASTRAQUILLO, Corbelita J. A study and evaluation of vocal art music in the Philippines during the first half of the 20th century.

GLICKMAN, Eugene Conrad. Concerto for orchestra.

HERMANN, Herbert Allen. 1. A structural analysis of the sonata for piano by Ernest Bloch. 2. An analytical comparison of editions of the Sonata Opus 10, No. 3 by Ludwig van Beethoven. 3. A comparison of two performances of the Sonata in b minor for piano by Franz Liszt.

JOHNSON, JR., Hugh B. An investigation of the tuning preferences of a selected group of singers with reference to just intonation, Pythagorean tuning, and equal temperament.

KNOX, III, Charles Courtenay. The orchestral violin tone.

LARGE, John W. 1. The linguistic problem in the performance of Claude Debussy's solo song settings of fifteenth-century poetry. 2. An investigation of the baritone solo cantatas of Jean-Philippe Rameau.

MURRAY, David Colden. 1. A performance edition of the Alessandro Scarlatti chamber cantata *Tra Speranza E Timore*. 2. Contemporary songs in English for the first and second year vocal student.

PETERSON, JR., Floyd Henry. A study of the relationships between music aptitude and achievement of graduate music students.

SEIPP, Kenneth Frank. An exploratory study in music appreciation: a comparison of the effectiveness of two different orders of presentation upon post-instructional retention.

SINCLAIR, John Vallance. 1. The keyboard works of Johann Froberger. 2. A study of the Moscheles Etudes, Op. 70. 3. The style of Federico Mompou as a composer for piano.

WILKINS, William Dean. 1. The keyboard variation from Cabezon to Bach. 2. Form in the organ symphonies of Charles-Marie Widor. 3. Harmonic style in Maurice Durufle's *Prelude, Adagio, and Choral Varie*.

WILLIAMS, Ronald Ray. 1. Piano Concerto in E. 2. Analytical supplement to the Piano Concerto in E.

WINOLD, Charles Allen. The effects of changes in harmonic tension upon listener response.

University of Kansas

BOXBERGER, Ruth. A historical study of the National Association for Music Therapy.

SWINCHOSKI, Albert Anthony. The development of a standardized music achievement test for the intermediate grades.

The University of Kansas City

RICHARDS, William Henry. Trends of piano class instruction, 1815-1962.

The University of Michigan

BAIRD, Edward Allen. Summary of Performance Materials. (Tape recording available at the University of Michigan School of Music Library.)

BARTHOLOMEW, Leland Earl. Alessandro Rauerij's collection of Canzoni Per Sonare (Venice, 1608). [2 volumes]

EDMONDS, James Jacob. Summary of Performance Materials. (Tape recording available at

the University of Michigan School of Music Library.)

EIFRIG, William Frederick. Summary of Performance Materials. (Tape recording available at the University of Michigan School of Music Library.)

ESKEY, Kathryn Frances. (Performance only. Tape recording available from School of Music library.)

HENDERSON, Donald Gene. Hans Pfitzner: The composer and his instrumental works.

HOCHBERG, Morris. (Performance only. Tape recording available from School of Music library.)

HUNKINS, Arthur Byron. Te Deum (for tenor and baritone soli, male chorus, and orchestra).

MAKARA, Paul. (Performance only. Tape recording available from School of Music library.)

McKINLEY, Ann Watson. Francesco Corteccia's music to Latin texts.

ONDERDONK, Henry. Symphony in two movements.

RYAN, Alexander Boggs. (Performance only. Tape recording available from School of Music library.)

SOMER, Avo. The keyboard music of Johann Jakob Froberger.

TRUE, Wesley Oliver. Summary of Performance Materials. (Tape recording available at the University of Michigan School of Music Library.)

VAN SOLKEMA, JR., Sherman. The liturgical music of Pierre Certon.

WHITFIELD, George Polk. (Performance only. Tape recording available from School of Music library.)

WILLWERTH, Paul Irvin. Summary of Performance Materials. (Tape recording available at the University of Michigan School of Music Library.)

WILSON, George Balch. Six pieces for orchestra.

Michigan State University

JOHNSON, Gordon Allen. A correlated music and visual arts course of study for the senior high school.

MC LAUGHLIN, O.P., Sister Mary Keven. A survey of music activities, materials and techniques for teachers of elementary educable mentally handicapped children.

University of Minnesota

CANON, Cornelius B. The federal music project of the Works Progress Administration: music in a democracy.

KEATS, Donald Howard. An elegiac symphony.

PONE, Gundaris. *Daniel Propheta*, oratorio eroico per tre parti principali, coro, e grande orchestra.

SCHULER, Richard Joseph. The life and liturgical works of Giovanni Maria Nanino (1545-1607).

WHITE, Adolph Peter. The construction and validation of a group test in music reading for intermediate grades.

New York University

ROSS, Jerrold. The development of a comprehensive philosophy for music in elementary education.

The University of North Carolina at Chapel Hill

KOTTICK, Edward Leon. The music of the chansonnier cordiforme: Paris, Bibliotheque Nationale, Rothschild 2973.

North Texas State University

McCAIN, Eula Louise. *A Psalm Fantasy*.

Northwestern University

BRUNDRETT, Grant A. Rameau's orchestration.

COX, Richard Garner. Choral texture in the music of Franz Schubert.

GANGWARE, JR., Edgar Brand. The history and use of percussion instruments in orchestration.

PATTY, James Leclil. Maurice Ravel's orchestral transcriptions of piano works.

WALDSCHMIDT, Carl Luther. Georg Boehm: His life and works.

The Ohio State University

BARNES, Robert Allan. An analysis of the effectiveness of programmed instruction as an ancillary learning experience in a music fundamentals class for prospective teachers.

University of Pennsylvania

MEYER, Eve Rose. Florian Gassmann and the Viennese divertimento.

The University of Rochester

ADDAMS, Eugene Bayne. Source and treatment of thematic material in the developments of the sonata-allegro movements in the symphonies of Wolfgang Amadeus Mozart.

BALSHAW, Paul Alan. A selected repertoire of anthems and motets for American Protestant liturgical churches.

BECKER, Cecil Warren. A transcription of Elias Nikolaus Ammerbach's *Orgel oder Instrument Tabulaturbach* (Second Edition, 1583).

BURSWOLD, Lee Bradley. Two movements for violoncello and orchestra.

FISHER, Frederic Irwin. A study of humor in keyboard music.

FREEMAN, Paul Douglas. The compositional technique of Wallingford Riegger as seen in seven major twelve-tone works.

FROHNE, Vincent Sauter. Three pieces for orchestra.

GARY, Roberta Sexton. A practical organ accompaniment for the Magnificat in D Major and for the Contata No. 106 of Johann Sebastian Bach.

HALDEMAN, William Keith. The vocal compositions of Christian Erbach (c. 1570-1635).

HEIM, Norman M. The use of the clarinet in published sonatas for clarinet and piano by English composers from 1880 to 1954.

HUNSDERGER, Donald Ross. Johann Sebastian Bach's *Prelude in E-Flat* and the *Passacaglia and Fugue in C Minor* in transcription for wind ensemble.

KLUMP, George Edward. An organ adaptation of the orchestral score of the *Brahms Requiem*.

KOOIKER, Anthony. Locke's *Melodegia*: its place in the history of keyboard music in Restoration England.

LEWIS, Gordon M. Symphony No. 1.

MOELENKAMP, Jack Gilbert. Trio No. 1 for piano, clarinet and bassoon.

PALMER, Larry Garland. Hugo Distler and his church music.

PURSLEY, Wilbur. Symphony for wind ensemble.

RUPERT, Donald V. The physiological errors and the reshaping of piano technique by F. A. Steinhausen: a translation and study.

SCHARF, Margaret Rickard. Teaching the first-year organ student in the liberal arts college.

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- SCHICK, Robert Daniel. Concerto for piano.
- SHUMWAY, Stanley Newmyer. A study of fugue writing by contemporary American composers.
- SMITH, Jerry Neil. Arranging for the modern marching band.
- STRANGELAND, Robert Alan. A pedagogical study of the Chopin études.
- TAYLOR, Laurence Richardson. Symphony.
- THOMAS, Betty Jean. Harmonic materials and treatment of dissonance in the pianoforte music of Frederic Chopin.

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- DANIELS, Arthur Michael. The De musica libri VII of Francisco De Salinas.
- FENLEY, George Ward. The violin concerti of Giuseppe Tartini, Michiele Strarico, and Paolo Alberghi.
- LAMONT, Herbert Harry. John Shepherd: his life and music.
- LEFKOWITZ, Murray. William Lawes - his life and works.
- MILLER, Kurt Robert. Heroes found in song texts from folk music of the United States.
- MUNGER, Shirley Annette. Concerto for piano and orchestra.
- REGIER, Bernard. The development of choral music in higher education.
- RINEY, Cecil. The emergence and development of a ministry of music within the society of friends.

Stanford University

- COLLINS, Michael Bruce. The performance of coloration, sesquialtera, and hemiola (1450-1750).
- HARRISON, JR., Gregory Alexander. The monophonic music in the *Roman de Fauvel*.

State University of Iowa

- BETTERTON, William Fred. A history of music in Davenport, Iowa, before 1900.
- BROCKINGTON, Howard Burnell. Volume I: String quartet. Volume II: Overture for orchestra.
- EVANS, Kenneth Gene. Instructional materials for the oboe, 1695-ca.1800.
- GANZ, Dale Boyles. The status of music instruction in the high schools of Nebraska.
- GOINS, Eddie Tyrone. John Dowland and the art song.
- MARQUIS, James Henry. A study of interval problems in sightsinging performance with consideration of the effect of context.

- GRAY, Thomas Leighton. An investigation of the changes in teaching concepts of student teachers of music.

- HELLER, Jack Joseph. The effects of formal music training on the Wing musical intelligence scores.

- PLUM, Abram Marcellus. Symphony in four movements.

- RAINBOW, Edward Louis. A pilot study to investigate constructs of musical aptitude.

- ROHRS, Dennis Kerlin. Predicting academic success in a liberal arts college music education program.

- ROUSSEAU, Eugene Ellsworth. Clarinet instructional materials from 1732 to ca.1825.

- STOLTIE, James Merle. A symphonie concertante type: the concerto for mixed woodwind ensemble in the classic period; illustrated with a score of François Devienne's *De Vienne's II^e*

Simphonie concertante pour hautbois ou clarinette et basson principal.

- TILLIS, Frederick Charles. Part I. Quintet for four woodwinds and percussion. Part II. Design for orchestra.

- TURRENTINE, Herbert Charles. Johann Schobert and French clavier music from 1700 to the Revolution.

Syracuse University

- BACON, Analee Camp. The evolution of the cello as a solo instrument.

The University of Tennessee

- PHIFER, James Wilson. An appraisal of music education in Knoxville and Knox County schools, 1961-1962.

The University of Texas

- NOBLITT, Thomas Lee. The *Motetti Missales* of the late fifteenth century.

- PARKER, Robert LeRoy. The motets of Adam Renner (c.1485-c.1520).

- SWANAY, John Lee. Romantic style characteristics led to the rise of dodecaphonic techniques.

Union Theological Seminary (New York)

- BOERINGER, James Leslie. Choir, solo, congregation and instruments, *Pentecostal Cantata*.

- ESPESETH, Rolf. Mixed chorus and band, *Psalm 150*.

- LANGSTON, Paul Truett. *Concerto for brass, organ and percussion*.

- MARTIN, Raymond Jones. The transition from psalmody to hymnody in Southern Presbyterianism, 1753-1901.

- McCORMICK, David Wilferd. Oliver Holden, composer and anthologist.

- OLSON, Ivan Ronald. *Christ Jesus lay in Death's strong bands*, cantata for choir and organ.

- ONCLEY, Alma Marie. Organ variations on *Orientis Partibus*.

University of Utah

- LOBROT, Gerald R. A survey, analysis, and critique of selected string class methods.

- PIEROTTI, Raymond Charles. Guillaume de Machault 130?-1377 (Part I) A historical and formal analysis of the secular works (Part II).

- WOLFORD, Darwin Kay. Prelude, fugue, and toccata for organ.

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- KREMER, Rudolph Joseph. The organ sonata since 1845.

- PATTERSON, Relford. Three American "primitives": a study of the musical style of Hans Gram, Oliver Holden and Samuel Holyoke.

- WIECK, S.S.N.D., Sister Mary Theoda. A theoretical basis for accompanying Gregorian chant according to medieval principles.

Western Reserve University

- WALTERS, William Rolland. A study of the nature and scope of Christian judgement on service music.

The University of Wisconsin

- SONENFIELD, Irwin Charles. *Maleine*: an opera in three acts.

Yale University

- GUSHEE, Lawrence Arthur. *The Musica disciplina of Aurelian of Réôme*: a critical text and commentary.

- HANLEY, Edwin. Alessandro Scarlatti's *Cantate de Camera*: a bibliographical study.

- SUESS, John Gunther. Giovanni Battista Vitali and the Sonata da Chiesa.

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- DUXBURY, Alyn Crandall. An investigation of stable waves along a velocity shear boundary in a two-layer sea with geostrophic flow regime.

- IBERT, Edward Robert. An investigation of the distribution of carbon dioxide between the atmosphere and the sea.

- NOAKES, John Edward. Nautral radiocarbon measurements by liquid scintillation counting.

The Johns Hopkins University

- OKUBO, Akira. Horizontal diffusion from an instantaneous point-source due to oceanic turbulence.

New York University

- DOE, L. A. Earlston. A three component thrust anemometer for studies of vertical transport above the sea surface.

- GARNER, David McNiven. Some studies on the ocean circulation.

- THOMANN, Robert Valentine. The use of systems analysis to describe the time variation of dissolved oxygen in a tidal stream.

Oregon State University

- OSTERBERG, Charles Lamar. Radioactivity in oceanic organisms.

PHARMACOLOGY

University of Arizona

- CHILD, Richard Francis. A preliminary phytochemical and pharmacological study of *Anemopsis californica*.

Baylor University

- STARBUCK, Wesley Curtis. Effect of hydroxyethylation on the uptake of rat albumin into tissues of tumor-bearing rats.

University of California, Los Angeles

- FAIRCHILD, Mahlon David. Some central nervous system effects of four phenyl substituted Amphetamine derivatives.

- HASLETT, JR., Wilford Leth. The pharmacology of Oxotremorine, a tremorgenic agent.

University of California, San Francisco Medical Center

- FANSHIER, Dean Walter. Mechanisms of regulation of the TCA cycle as determined with the aid of enzyme inhibitors.

- KUPFERBERG, Harvey Jerome. Pharmacologic basis for the newborn rat to morphine.

PHARMACOLOGY

University of Chicago

- BARON, Joseph Mandel. Studies of ureolytic activity of conventional and germ-free mammalian tissue.
- DOMEK, Norbert Stanley. Distribution of C-14 phenobarbital and S-35 and C-14 thiopental in the central nervous system of the maturing kitten and the adult cat.
- FIREMARK, Hugh M. The penetration of pyridine-2-aldoxime methiodide into rat brain.
- LAL, Harbans. Localization of barbital-C¹⁴ and other radioactive drugs in the central nervous system and additional tissues.

University of Cincinnati

- SIEGEL, Ivens Aaron. Effects of 3-acetyl strophantidin on potassium transfer, secretion, and vascular resistance in the dog submaxillary gland.

The University of Connecticut

- LUCKENS, Mark Manfred. Cardiovascular effects of reserpine, yohimbine, and mixtures on the intact anesthetized dog.
- SCHREIBER, Eric Christian. In vitro dealkylation of substituted sulfonamides: a preliminary investigation.

Cornell University

- DE LA FUENTE, Jesus Mario. Adjuvants increasing the residual activity of malathion.

Emory University

- NAIMAN, Elaine Gaisert. Some effects of diphenylhydantoin on the duration of respiratory activity during anoxia.

Georgetown University

- PETRUCELLI, Lawrence M. The effect of procaine hydrochloride on the systemic blood pressure and autonomic reflexes after administration via the cisterna magna and the lateral cerebral ventricle.

The George Washington University

- STERLING, William Robert. Studies on the metabolism and mechanism of action of 1-amino-cyclopentane-1-carboxylic acid.

Indiana University

- KHAN, Akhlaque Un-Nabi. Study of the influences of central nervous system on fat mobilization.
- YUSUF, Shaikh Mohammad. *In Vitro* metabolism of atrial and ventricular myocardium: effect of ouabain.

University of Maryland

- BRAUDE, Monique C. Pharmacology of a new convulsant, BZL, a theophylline derivative.
- CASCORBI, Helmut Freimund. Anesthetic emulsions in animals and man.
- KOKOSKI, Robert John. The determination of phenol in calamine lotions.
- LEVINE, Phillip J. A study of some liquid dosage forms of ethyl aminobenzoate.
- MARLOWE, Edward. The availability of sodium salicylate from tablet bases.
- RUDO, Frieda Galindo. The anesthetic properties of intravenous 2-brom-1,1,2-trifluoroethyl methyl ether.

The University of Michigan

- HORNBROOK, Kent Roger. Catecholamine-induced changes in rat heart and skeletal muscle phosphorylase α and glycogen.
- HUG, JR., Carl Casimir. Tritium-labeled dihydro-morphine: a research tool for the investigation of the fate and distribution of narcotic analgesics.
- JACOBY, Henry I. An extraluminal gastrointestinal smooth muscle contractile force transducer for intact unanesthetized dogs.
- REYNOLDS, Robert Charles. The effect of pH and ionization on the actions of the catecholamines.

University of Minnesota

- ARONSON, Arthur Lawrence. Factors determining the efficiency and degree of lead mobilization from soft tissue by a chelating agent.
- ENER, Huseyin Siret. The estimation of epinephrine, norepinephrine, and aldrin (a chlorinated naphthalene derivative) in mammalian tissue employing biological and chemical methods of assay, and some considerations of toxicological effects of aldrin.
- KING, William Moreland. Contributions to the pharmacology and pathology of levarterenol and related compounds.
- KOTTKE, Bruce Allen. Cholesterol metabolism in experimental animals as modified by nicotinic acid and its analogues, triparanol, and dietary fat: effects on cholesterol synthesis, bile acid formation and atherosclerosis.
- McCONNELL, Robert Gordon. Some aspects of the treatment of experimentally-induced salicylate poisoning in the dog.

The University of North Carolina at Chapel Hill

- TAYLOR, William West. Antitussives: past and present. Their chemistry and biological properties.

The Ohio State University

- COHEN, Marvin. Effects of limbic lesions on the interaction of chlorpromazine and pentobarbital as measured by a new behavioral scale.
- DUTTA, Saradindu. Distribution and fate of Ouabain-H³ and dihydro-ouabain-H³ in the rat and sheep, and Ouabain-H³ in man.
- JACOBOWITZ, David Meyer. The effect of stress on pituitary and hypothalamic metabolism and ACTH synthesis.
- PATIL, Popat Narayan. A pharmacological study of the ephedrine isomers.
- WEISS, Lawrence Robert. The interaction of drugs and stress on the behavior of the central nervous system.

University of Pennsylvania

- ALI, M.D., Hanem I. E. Action of sympathomimetic amines and cyclic AMP on metabolism and function.

Philadelphia College of Pharmacy and Science

- WEISS, Benjamin. Metabolism of 3,4-dihydroxyphenylalanine C-14 in the normal and apitha-methyl-DOPA-treated mouse.

University of Pittsburgh

- HONKOMP, Leroy J. 1-ethyl-3-(parahydroxy-phenyl)-2-pyroline hydrochloride.

Purdue University

- BOYLAN, James Charles. A new approach to the development of sustained action dosage forms III. Entrapment of anionic drugs by polymeric gelation.
- BRAUCHER, Charles Landis. Academic and other factors related to success in retail pharmacy management.
- DOERR, Dale William. Consumer credit practices of Indiana Pharmacies.
- GOODMAN, Harris. A new approach to the development of sustained action dosage forms I. Entrapment of cationic drugs by polymeric flocculation.

- MUNDEN, Bill J. The evaluation of polymeric materials as pharmaceutical film coating agents.
- NESSEL, Robert Jay. Tabletting of film coated granules for sustained action.
- NEUMANN, Norwood Richard. Studies on drug metabolism and ascorbic acid biosynthesis.
- PECK, Garnet Edward. The determination of moisture content and thickness in pharmaceutical control using radioactive sources.
- SIMON, Thomas H. A new approach to the development of sustained action dosage forms II. Interactions of drugs with polymers precipitated from non-aqueous solvents.
- SPAHR, James Lowell. A comparative study of the alternating and direct current polarography of several Δ -4-3-ketosteroids.
- STORZ, Gunther Karl. The interaction of a macromolecular ionic and nonionic system, rheological and suspension characteristics.
- SUGITA, Edward Toshiharu. The correlation of molecular orbital calculations with acetylcholinesterase activity and inhibitions: applications to drug systems.
- WAI, Kee-Neng. Some physico-chemical properties of the montmorillonites and their applications in tablet making.
- ZIEMER, Paul Louis. Characteristics and health physics applications of large volume liquid scintillation counters.

University of Rhode Island

- GOMEZ, Leticia Malaki. Relationships between certain physical and chemical factors and glycoside formation in digitalis.
- PRICE, James Clarence. The development of an instrument for quantitative study of the photolysis of light sensitive drugs.
- ROSECRANS, John Adam. The interrelationships between chronic restraint stress and reserpine sedation: effects on pituitary-adrenal function and brain serotonin and norepinephrine levels in male albino rats.

The University of Rochester

- CARUSO, Frank San Carlo. Some pharmacological and toxicological effects of sodium fluoride in dogs.
- GATZY, JR., John Thomas. Permeability characteristics of the toad bladder.

Rutgers - The State University

- FELMEISTER, Alvin. A study of the photodegradation of chlorpromazine hydrochloride.
- KORNBLUM, Saul S. A study of the decarboxylation reaction of *p*-aminosalicylic acid in the solid state.
- PARUTA, Anthony Nicholas. A dielectric constant approach to solubility phenomena.

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St. Louis University

- HOPPER, Sarah. Purification, properties, and mechanism of hormonal control of soluble rat liver glutamic-alanine transaminase.
- HUGHES, Maysie Hill. Certain aspects of the behavior of hypoxic smooth muscle.

Medical College of South Carolina

- BAGWELL, Ervin Eugene. A comparison of changes in cardiovascular dynamics during inhalational anesthesia in control and reserpine pre-treated animals.
- THOMPSON, JR., Wilmer Leigh. Hydroxyethyl starch: a prospective plasma substitute.

State University of Iowa

- BABCOCK, Philip A. A tissue culture study of certain members of the *Apocynaceae*.
- DIXON, Robert Louis. A structure-function-relationship study of various factors altering microsomal drug metabolism.

State University of New York, Downstate Medical Center

- EHRREICH, Stewart. Electrophysiological basis for photoactivated and drug induced relaxations in gastrointestinal smooth muscle.

The University of Tennessee

- OLIVER, James Thomas. The effects of various physiologic and pharmacologic factors on pituitary-adrenal function.

Tulane University

- ROBISON, George Alan. Some pharmacological aspects of cardiac muscle function.

Washington State University

- NARAYANAN, Venkatachala Lakshmi. The synthesis of 3-(N,N-diethylamino)-3-phenyl-2,6-piperidinedione as a potential antiepileptic compound.

- NAZARETH, Maurice Rex. A study of the physical factors affecting the subcoating of compressed tablets.

University of Washington

- BJAASTAD, Steven Gay. An investigation of the environment of solubilized ketones by means of ultraviolet spectral transitions.

- MATSUMOTO, Charles. Studies on the interaction between the adrenergic neuronal blocking agents and the sympathomimetic amines.

- SALAFSKY, Bernard Pritikin. The fibrinogen-fibrin conversion and the effect of heparin and other inhibitors on this system.

The University of Wisconsin

- CAVANAUGH, John Herbert. The physiological disposition of chlorazanil and its effect upon the distribution of 4-C¹⁴-cortisol.

- CHA, Sungman. Studies on succinic thiokinase.

- MIECH, Ralph Patrick. Purification and kinetics of ATP-GMP transphosphorylase from hog brain.

- NORTHROP, Gretajo. Studies on epinephrine and 3', 5'-AMP induced hyperglycemia employing the isolated perfused rat liver.

- RUDZIK, Allan Dennis. The significance of uterine catecholamines and their relationship to the mechanism of action of relaxin.

SKULAN, Thomas William. Modification of responses to steroid hormones by symmetrical triazine derivatives.

TONG, Howard Wing Soon. Physiological disposition of alkylphosphate antagonists.

STEPELEVICH, Lawrence S. Henri Bergson's concept of man: an exposition and a critique. (C.U. Philosophical Studies No. 207).

TONG, S.T.B., Rev. Paul K. K. The formal logic of St. Albert the Great. (C.U. Philosophical Studies No. 210).

WILKERSON, Rev. Jerome F. The concept of friendship in the *Nicomachean Ethics* of Aristotle. (C.U. Philosophical Studies No. 211).

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- COLE, Richard. Possibilities.

DAVIS, Merrill C. The concept of transcendence in the philosophy of Alfred North Whitehead.

HEYNE, Paul T. The presuppositions of economic thought: a study in the philosophical and theological sources of economic controversy.

Columbia University

AUSTIN, Avel. *Ulysses* and the human body. [Microfilming withheld until 1965.]

BAUKE, Joseph P. Christian Gottfried Körner: Portrait of a literary man.

BELAIEF, Lynne. The ethics of Alfred North Whitehead. [Microfilming withheld until 1965.]

BERGENS, Andrée I. Raymond Queneau.

BOONIN, Leonard G. The concept of a valid legal decision: a study in twentieth century legal philosophy.

BURGESS, Charles O. King John was not a good man.

CHRISTIANI, Dounia B. Scandinavian elements of Finnegans wake. [Microfilming withheld until 1965.]

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EICHRODT, John M. D. H. Lawrence and the Protestant crisis.

ELIAS, Julius Anthony. Fredrich Schiller: the poet as philosopher.

FELDMAN, Seymour N.O. Ernst Cassirer's "Theory of Concept".

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KIBEL, Alvin C. After such knowledge: "modern criticism and its ideology".

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SIDORSKY, David. The nature of disagreement in social philosophy: four criticisms of liberalism.

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DRANGE, Theodore Michael. Type crossings.

MUCKLOW, Neale Harmon. The Cartesian circle.

WALLACE, James Donald. Pleasure: its objects and its relation to action.

Duke University

BUCCINO, Salvatore George. Elastic and inelastic scattering of fast neutrons from medium weight nuclei.

GRIMM, Robert H. Subject-predicate sentences.

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VEGA, José de Jesús. La afinidad ontológica entre San Juan de la Cruz y Juan Ramón Jiménez, Pedro Salinas y Jorge Guillén.

Boston University

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BUFORD, Thomas Oliver. The idea of creation in Plato, Augustine, and Emil Brunner.

FOGG, Walter Larry. Experience and order in Blanshard and Whitehead.

FRAZIER, Allie Mitchell. The concept of the self in the metaphysics of Charles Arthur Campbell.

HARTMAN, Richard Otis. Aspects of personality as key analogical factors in the metaphysics of Leibniz and Schopenhauer.

LEITH, Thomas Henry. Popper's views of theory formation compared with the development of post-relativistic cosmological models.

WHITE, Clifford Dale. Indications for ethics in the concepts of guilt and shame in certain psychiatric theories.

Brandeis University

IVRY, Alfred L. Moses of Narbonne's treatise, *The Perfection of the Soul*. A partial edition from the Paris Ms., with translation and notes.

Bryn Mawr College

HORWITZ, Gertrude Rivka. Speech and time in the philosophy of Franz Rosenzweig.

University of California, Berkeley

PERRY, David Louis. The concept of pleasure.

PRICERT, Sheridan Sidney. The relationship of professed ethical attitudes to certain philosophical positions.

ROBINSON, Richard Ellsworth. A set-theoretical approach to empirical meaningfulness of measurement statements.

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The Catholic University of America

BROUSSARD, Joseph Daphis. Eternity in Greek and scholastic philosophy. (C.U. Philosophical Studies No. 208).

FOX, Rev. Robert J. Limitation of warfare according to the just war theory. (C.U. Philosophical Studies No. 206).

HALPIN, O.P., Sister Marlene. The origin of the first principle. (C.U. Philosophical Studies No. 212).

NARDONE, Henry F. St. Thomas Aquinas and the condemnation of 1277. (C.U. Philosophical Studies No. 209).

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 PETERSON, Philip L. A property instance theory of particulars.

Emory University

HOLMES, JR., Alonzo H. The idea of incarnation in Hegel's philosophy of history.
 MAYER DE BERNCastle, John Robert Andrew. The temporalistic implications of the Socinian doctrine of divine knowledge and some of its historical anticipations.
 McGOWAN, Robert Lee. Sympathy and conscience: a study of Adam Smith's ethical theory.
 WHIDDON, Frederick Palmer. Anselm's ontological argument and representative later interpretations.

Fordham University

BARRAL, Mary Rose. Merleau-Ponty: the role of the body in interpersonal relations.
 BARRY, Robert M. The epistemology of Talcott Parsons.
 DILWORTH, David A. The Platonism-pragmatism polarity in Whitehead's thought.
 GIOSCIA, Victor J. Plato's image of time.
 HASHIMOTO, Rentaro. Process and finality in Hegel.
 HENNESSY, S.J., Rev. James E. The background, sources, and meaning of divine infinity in St. Gregory of Nyssa.
 MURPHY, S.J., Rev. Richard T. Phenomenology and the dialectic: a study of pre-reflexive consciousness in the phenomenological theories of Husserl, Sartre and Merleau-Ponty.

Georgetown University

SCHAEFER, Thomas E. The meaning of Chun Tzu in the thought of Mencius.

Harvard University

GUTWIRTH, Marc Raphael. Hesiod and his view of man.
 HOPKINS, JR., Jasper Stephen. Epistemological foundations of R. G. Collingwood's philosophy of history.
 JONES, David Henry. Freud's theory of moral conscience.
 LEHMAN, Hugh Stephen. Function statements in biology.
 LONG, Douglas Clark. The argument from analogy for the existence of other minds.
 LYONS, David Barry. Utilitarian generalization.
 NAGEL, Thomas. Altruism.
 ORLEBEKE, Clifton James. Plato's theory of natural law.
 PIKE, Nelson Craft. Hume on personal identity.
 SWARTZ, Robert Jason. Perception, sense-experience, and ordinary language.
 THOMAS, JR., George Bryson. Knowing how: a study of the concept of a human ability.
 TODES, Samuel Judah. The human body as the material subject of the world.

The Iliff School of Theology

SMITH, Kenneth Edward. An analysis of presuppositions in contemporary attitudes toward non-Christian religions.

University of Illinois

MINAS, James Sayer. On the construction of propositional calculi.

Indiana University

DAVIS, Clarence George. Categorical imperatives and the way out.
 LINEBACK, Richard Harold. The place of the imagination in Hume's epistemology.

The Johns Hopkins University

BLUESTONE, Natalie Suzanne Harris. Time and consciousness in Jean-Paul Sartre and William James.
 COLEMAN, Francis Jerome. An essay concerning critical reasoning.
 CORCORAN, JR., John Patrick. Generative structure in two-valued logics.
 LUCAS, Eldon Ray. Some aspects of Kant's philosophy of mathematics.
 PRIMACK, Maxwell. Francis Bacon's philosophy of nature.
 SPECTOR, Marshall. Theory and observation: an examination of some problems in logical empiricism.

Université Laval

GALLUP, John Richard. The primary meanings of the Latin word *Modus*.
 McARTHUR, Ronald. The Universal *in praedictando* and the Universal *in causando*.

Marquette University

GALLAGHER, Idella J. Moral obligation in the philosophy of Henri Bergson.
 LINDGREN, John Ralph. Adam Smith's theory of the ultimate foundations of commercial society.

The University of Michigan

COX, Kendall Boice. Hume's theory of moral judgments in the *Treatise*.
 LEATHERMAN, Roger Lee. An empirical study of attitudes and values in a university faculty.
 VERNON, Thomas Sidney. The metaphysical role of ideas in the philosophy of Descartes.

Michigan State University

STENNER, Alfred Jackson. Paradox, predication and self-vitiating hypotheses.

University of Minnesota

KIELKOPF, Charles Francis. An examination of Ludwig Wittgenstein's remarks on the foundations of mathematics.

The University of Nebraska

GORDON, Alexander Duff. Implications of logical positivism for ethical theory.
 HACKMANN, Emil Edward. The concepts of myth, philosophy, and history, in the demythologizing theology of Rudolf Bultmann.
 NISSEN, Lowell Allen. John Dewey's theory of inquiry and truth.

New School for Social Research

KRISHNA, Purushotman Muthu. The political philosophy of Sri Aurobindo; an exposition and

assessment of the integral system of a leading Indian thinker.

New York University

GUTTCHEN, Robert Samuel. An identification, analysis and evaluation of Felix Adler's ethics and philosophy of education.
 KHAN, Theodore A. R. A critique of Kierkegaard's category of the individual based on his philosophic-religious view of man.

The University of North Carolina at Chapel Hill

RISER, John Sherwood. The philosophical analysis of theological statements.

Northwestern University

MERRILL, Kenneth Rogers. Whitehead's theory of givenness.
 STEIN, Waltraut Johanna Hedwig. Intersubjectivity and schizophrenia.
 SYLVESTER, Robert Peter. An examination of the ethical philosophy of G. E. Moore.

University of Notre Dame

KELLY, O.S.U., Sister M. James Therese. An examination of Eric Gill's philosophy of art.

The Ohio State University

BOWNE, Gwendolyn Duell. The development of the philosophy of logic from 1880 to 1908.
 BROILES, Rowland David. An analysis of Hume's arguments concerning the role of reason in moral decisions.

University of Pennsylvania

GUNSTRA, Bernard Richard. The nature of the measurement activity.

The Pennsylvania State University

KOZY, JR., John. Rational realism - A philosophy of common sense.

University of Pittsburgh

CONDON, William Stephen. The Freudian view of human nature.
 GAUGHAN, Norbert F. Praetor Redivivus in John of Paris's *On Royal and Papal Power*?
 HERMANN, Robert Martin. The relevance of recent educational criticism to the thought of John Dewey.

The University of Rochester

ZWEIG, Marilyn B. Dispositional and non-dispositional properties and predicates.

St. Bonaventure University

CUDAHY, Brian James. A prologue to some theories on causality.
 WASS, Meldon Clarence. God infinite and the *summa fratriss Alexandri*.

St. John's University

KELLY, James Patrick. The continuation between the human sense powers and the human speculative intellect according to St. Thomas Aquinas.

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St. Louis University

- BILL, C.S.C., Reverend Thomas Lee. The theory of nature in John Stuart Mill.
- DAMHORST, Reverend Donald Edward. Social norms and Protestant ethics: the ethical views of Reinhold Niebuhr and H. Richard Niebuhr.
- ERMATINGER, Charles Joseph. The coalescent intellective soul in post-Thomistic debate.
- HASSEL, S.J., Reverend David John. Method and *scientia* in St. Augustine: a study of books VIII to XV in his *De Trinitate*.
- HOPKINS, S.J., Reverend John Vincent. Urban on the form of philosophical intelligibility.
- McMAHON, O.P., Sister Mary Roberta. *Separatio* in recent Thomism.
- PUNZO, Vincent Christopher. Royce on the problem of individuality.
- ST. HILAIRE, F.C.S.P., Sister Mary Georgetta. Precepts of natural law in St. Thomas.

University of Southern California

- AHUMADA, Rodolfo. The philosophies of Antonio Caso and Jose Vasconcelos with special emphasis on their concepts of value.
- BANKS, Howard Milton. A historical survey of the mise-en-scene employed in Shakespearean productions from the Elizabethan period to the present.
- ELIOT, Gerald. Analysis of small manufacturers' pricing policies in Southern California.
- GRIMM, Rodolfo Ahumada. The philosophies of Antonio Caso and Jose Vasconcelos with special emphasis on their concepts of value.
- McEVILLY, Wayne. Music and metaphysics.
- RUDOLPH, Arthur. Superhistorical individuality in Nietzsche's thought.

Stanford University

- HEIMBECK, Raeburne Seeley. Theology and meaning: a critique of metatheological skepticism. [Dissertation withheld until June 1964]
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- GEORGI, Jay Robert. The renal excretion of calcium and strontium.
- VAN NIEKERK, Barend Daniel Human. Urinary creatinine; a study of its relations to body composition and of the factors influencing its rate of excretion and decomposition.
- Duke University**
- UTLEY, John D. The effects of anthranilic hydroxamic acid on rat behavior and rat brain gamma aminobutyric acid, norepinephrine, and 5-hydroxytryptophan concentrations.
- The University of Florida**
- GARRARD, Leon Alexander. A study of the physiology of thiourea-induced germination of seeds of *Prunus persica*.
- TAYLOR, JR., Robert Emerald. Factors affecting renal sodium loss in the hypothyroid rat.
- Georgetown University**
- MITCHELL, Thomas G. A study of intra-renal blood flow.
- George Washington University**
- GILMORE, Joseph Patrick. The influence of arterial baroceptors on renal function.
- Harvard University**
- BOASS, Agna. Studies on intrinsic factor and its role in B_{12} absorption.
- REMMERS, John E. Interaction of CO_2 and hypoxic stimuli on ventilation at high altitude.
- University of Illinois**
- BRINKLEY, Howard Junior. The formation and maintenance of corpora lutea in cycling gilts.
- BRUGGE, John Francis. Electroencephalographic changes following septal lesions in the unrestrained rat.
- EWING, Larry Larue. The effect of temperature on the metabolic activity of the rabbit testis.
- FRITZ, JR., George Richard. Studies of parturition time in the albino rat.
- GOODALL, Forrest Raymond. Ultrastructural changes in the uterine myometrium of ovariectomized rabbits during estrogen administration.
- KLICKA, John Kenneth. Some physiological effects of ACTH, TSH, and thyroid hormones in goldfish.
- LEFER, Allan Mark. Acute cardiovascular effects of adrenal hormones in the intact dog.
- MIZUKAMI, Hiroshi. Studies on structure and polymerization of *Venus mercenaria* paramyosin in solution.
- SIMPSON, Robert John. The relationship of carbonic anhydrase to mineralization in the epiphyseal cartilage of rats.
- SOO HOO, Calvin Franklin. Selection and utilization of food plants by the larvae of *Prodenia eridania* (Cramer), with additional utilization studies on the silkworm, *Bombyx mori* (Linnaeus).
- University of Illinois at the Medical Center**
- ZAHARKO, Daniel Samuel. Experimental ketosis in man and related metabolic alterations with exercise, starvation, and cold stress.
- McCROREY, Henry Lawrence. Relationship of total energy expenditure to force and velocity of contraction at various temperatures in cat skeletal muscle.
- SUKOWSKI, Ernest John. Relationship of total carbohydrate disappearance to lactate formation in anaerobic liver slices from the rat.
- Indiana University**
- AHMAD, Gulzar. A study of intestinal hemodynamics during continuous infusion of norepinephrine, epinephrine and isoproterenol.
- CARTER, John Haas. A servoanalysis of the human accommodative mechanisms.
- KINGSBURY, William Story. A preliminary study of the release of renin from the *in situ* perfused dog kidney.
- KOLLIAS, James. Action of various agents on chemical and physical mechanisms of temperature regulation of the rat.
- Iowa State University of Science and Technology**
- EWING, Keith Lowell. Hematological effects in C₅₇BL/6 mice fed selected *Tweens*.
- Université Laval**
- LANGLOIS, Jean Marie. Etude microphysiologique des afférents du trijumeau dans la formation réticulée du tronc cérébral.
- University of Maryland**
- CLARK, Charles Elmer. Metabolism and excretion as factors influencing the level of serum cholesterol in two lines of chickens.
- CONNOLLY, James Donald. The metabolism of albuminbound sodium palmitate-1-C¹⁴ by the isolated perfused goat liver.
- GREENBAUM, JR., Leon J. A study of excitability cycles in the cerebral cortex of the cat.
- WILSON, Henry Russell. Origin of an increased serum alkaline phosphatase in white leghorn chicks.
- McGill University**
- PEROT, Phanor Leonidas. Mesencephalicthalamic relations in the mechanism of the experimental wave and spike complex in the cat.
- QUASTEL, David M. J. The role of sodium ions in acetylcholine metabolism in sympathetic ganglia.
- Michigan State University**
- KNOLL, Jack. Sodium and chromate ion movement across isolated frog and fish skins with the effect of magnetic fields upon such movement.
- KOUSHANPOUR, Esmail. Fourier analysis of the time curves of the basic cardiac parameters of acutely-prepared open-chest cats and turtles under various experimental conditions.
- NICOLL, Charles Samuel. Studies on prolactin secretion *in vitro*.
- SPECKMANN, JR., Elwood William. Cardiovascular parameters and static elastic moduli of the turkey aorta.
- UPDYKE, Wynn Franklin. A study of the effects of exercise of various frequencies and intensities upon the swimming ability and physiological well-being of specific pathogen free male albino rats.
- WAGGONER, William Charles. Observations upon the microanatomy of the *in vivo* quick-frozen and dried kidney in normal and experimental conditions.
- WELLS, II, Charles Henry. A comparison of renal tissue sodium and calcium concentration changes induced by parathyroid extract, calcium excess or calcium deprivation in the rabbit.
- University of Minnesota**
- BIRKHEAD, Newton Charles. The effect of body tilt, lower body pressurization and ganglion blockade on the variations in thoracic aorta blood flow during the valsalva maneuver in man.
- CATES, William Francis. Minimum daily exogenous progesterone requirement for implantation in the bovine species.
- FEDDE, Marion Roger. Neural control of avian respiration.
- FOX, Irwin J. Studies on indicator-dilution curves: instrumentation and indicators.
- LEFEBVRE, Eugene Allen. Energy metabolism in the pigeon (*Columba livia*) at rest and in flight.
- NOVAK, Ladislav Peter. Age and sex differences in body density and creatinine excretion of high school children.
- ROWELL, Loring Bernard. Factors affecting the prediction of the maximal oxygen intake from measurements made during submaximal work with observations related to factors which may limit maximal oxygen intake.
- WALKER, JR., John Lawrence. Phasic efflux of various ions from frog heart muscle.
- University of Missouri**
- DAVIS, Lloyd Edward. The effects of ruminal insufflation on the cerebral circulation of the goat.
- GROSSIE, Jim Allen. Influence of dietary nutrients on endocrine function.
- ROMACK, Frank Eldon. Anatomy and secretion rate of the porcine thyroid gland.
- New York University**
- GROB, Howard Shea. A study of the actions of estradiol and parathyroid extract on some phases of calcium metabolism in the albino rat.
- KATZ, Sidney. Respiratory and blood pressure responses to electrical stimulation of peripheral afferent nerves.
- The University of North Carolina at Chapel Hill**
- BARROW, Emily Stacy. A study of the relationships between initiation of clotting and formation of plasma kinins.
- RIERSON, Herman Auston. Coagulation factors in canine thoracic duct lymph.
- Northwestern University**
- LUTSCH, Edward Fredric. Rhythmic variations of oxidative metabolism in bean seedlings.
- The Ohio State University**
- BARTH, Delbert Sylvester. Equilibrium approached by alveolar carbon dioxide during breath holding.
- HAMLIN, Robert Louis. Evaluation of the simultaneous indicator-dilution method for detecting mitral regurgitation in dogs.

DOCTORAL DISSERTATIONS 1962-1963

- MANDEL, Morris Jack.** Effect of angiotensin infusion on regional blood flow and regional vascular resistance in the rat.
- PAUL, Lawrence Thomas.** Myocardial relaxation: the effect of epinephrine on unit synchronization.
- ROLDAN, Pura Norma Suarez.** Studies on the effect of quinidine on cardiovascular hemodynamics and on myocardial mineral and carbohydrate metabolism.
- VOGEL, Thomas Timothy.** Studies on the mechanism of hyperemia in skeletal muscle during contraction.
- WILSON, George Rodger.** The effects of thymectomy on the reproductive capacities of Holstein bulls.

Oregon State University

- KRUEGER, Kenneth William.** Comparative photosynthesis and respiration rates of Douglas-fir seedlings from Vancouver Island and Montana under various conditions of light and temperature.

- LI, Pen Hsiang.** Metabolism of pears in modified atmospheres.

University of Pennsylvania

- ABRAMS, Robert Marlow.** Hypothalamic temperatures in unanesthetized albino rats.

- NEVILLE, Margaret Cobb.** The action of calcium ion on the energy of the monovalent cations into barley roots.

- WARREN, Donald William.** Role of the velopharyngeal orifice in speech: normal pressure and flow relationships and the effects upon these of cleft palate.

The Pennsylvania State University

- WARDLAW, Janet Melville.** Sodium regulation during pregnancy in the rat.

Purdue University

- BARTLETT, Alan Claymore.** Changes in quantitative traits under selection and irradiation.

The University of Rochester

- WEKSTEIN, David Robert.** Postnatal development of autonomic nervous function in the rat.

The Rockefeller Institute

- CURTIS, Brian Albert.** Actions of extracellular Ca, K and Ni on the intracellular control of contraction in striated muscle.

- DODGE, JR., Frederick Arthur.** A study of ionic permeability changes underlying excitation in myelinated nerve fibers of the frog.

- FINKELSTEIN, Alan.** The role of time variant resistance and electromotive force in ionic systems related to cell membranes: the excitability properties of frog skin and toad bladder.

- SLAYMAN, JR., Clifford Leroy.** Electrical properties of the plasma membrane of *Neurospora crassa*.

Rutgers - The State University

- BANKS, JR., William Louis.** Studies on the supplementation of wheat gluten protein in the growing rat.

- CAMPBELL, JR., George Latimer.** Some characteristics of rat cerebral cortical cells prepared and separated by a new technique.

- HASSERT, JR., G. Lee.** Quantitative changes in skeletal muscle after injury.

- KARALL, Edgar F.** Iron, growth, and chlorophyll synthesis in Euglena.

- TIAN, Roy Tsungning.** A search for an essential role of boron in plant metabolism.

St. Louis University

- MASLAG, S.S.M., Sister Wilma Marie.** Relation of menstrual cycle to responses to heat stress.

University of Southern California

- MONDON, Carl Erwin.** A study of hormonal influence of metabolic adaptation to cold.

Stanford University

- BEATTY, Dana Louise.** Behavioral correlates of round window-recorded cochlear microphonics.

State University of Iowa

- BARNES, Charles Dee.** Motoneurone resting potentials in spinal shock.

- MORESSI, William Joseph.** Mortality patterns of mouse sarcoma 180 cells resulting from direct heating and chronic microwave irradiation.

- REYNOLDS, David George.** An evaluation of segmental vascular reactivity subsequent to sympathectomy.

State University of New York at Buffalo

- ROBERTSON, William G.** Studies on gas resorption from occluded lungs.

State University of New York
Downstate Medical Center

- TRAINOR, Frieda S.** Location, activity and responses of respiratory neurons in the medulla oblongata of the cat.

- WEXLER, Ira.** Some factors affecting renal blood flow through exercise.

Temple University

- CHRISTIANSEN, Janice H.** The positive wave component of the spinal cord dorsum potential in the cat.

The University of Texas

- COBB, JR., Howell Dee.** Studies on nitrogen fixation in a blue-green alga.

University of Toronto

- HAINES, David Samuel Milton.** Studies on the metabolism of plasma lipids in rats, with reference to the mechanism of action of choline.

- KRAICER, Jacob.** Pituitary-target organ interrelationships.

- METZ, Robert John Samuel.** Factors influencing urea synthesis.

Tufts University

- PATKIN, Judith Kent.** The effect of cold acclimation on lipogenesis in rats.

Tulane University

- COOPER, Gary Pettus.** The effects of changes in blood sugar on the electrical activity of the hypothalamus and on food intake.

Utah State University

- LINN, DeVen Wayne.** The effects of radium on certain goldfish blood constituents and organs.

Vanderbilt University

- HO, Ren-jye.** Studies on the mobilization of fatty acids from the isolated perfused rat epididymal fat pad.

- TOMLINSON, Gus.** Mechanism of cyst wall formation in *Acanthamoeba* sp.

University of Washington

- ADAMS, Thomas.** The hypothalamic control of body temperature.

- SMITH, Robert Elphin.** Analysis of the myotatic reflex in flexor muscles.

Wayne State University

- ALLISON, Robert Dean.** Volumetric dynamics of respiration as measured by electrical impedance plethysmography.

- PURCELL, Geraldine M.** Influence of cellular structures and selected enzymes on prothrombin activation.

- RIDDLE, Jeanne Marie.** Research on the ultrastructure of molecules essential for blood coagulation.

The University of Wisconsin

- STEVERMER, Emmett J.** Influence of level of nutrition of the boar and of ionic environment of the spermatozoa on the properties of boar semen.

POLITICAL SCIENCE

General

Bryn Mawr College

- FALCO, Maria J.** Inquisition: an historical analysis of a concept.

University of California, Berkeley

- FLATHMAN, Richard Earl.** Leadership and constitutionalism.

- JOHNSTON, Robert Lowell.** The prime ministership of Sir Anthony Eden: a study of the man and the office.

- KUNSMAN, JR., Charles Henry.** The origins and development of political parties in the British West Indies.

- OLSON, David Martin.** The government relations programs of the American Petroleum Institute and the Independent Petroleum Association of America: a comparative study.

- ZABIH, Sepehr.** The dynamics of the communist movement in Iran, 1920-1962.

University of California, Los Angeles

- JOHNSON, Kenneth Fox.** Urbanization and political change in Latin America.

- MCDONALD, Ronald Hammond.** Ideology and political appeals -- a theory for analysis of contemporary belief systems.

POLITICAL SCIENCE

- The Catholic University of America
- BROCKMAN, S.M., Brother Norbert. *The politics of the American Bar Association.*
- University of Chicago
- BATSON, Robert J. *Measuring the effectiveness of personnel administration in state and local government.*
- BUTTERWORTH, Charles E. *Legitimacy and sovereign authority in the Social Contract of J. J. Rousseau.*
- CANTORI, Louis Joseph. *Political implications of Islam in the middle belt of northern Nigeria.*
- DALTON, Dennis. *New humanism: the political philosophy of M. N. Roy.*
- DENNIS, Jack S. *The decision-making approach to politics.*
- EMMERT, Kirk R. *The political thought of Winston Churchill.*
- FLAUMENHAFT, Harvey. *The struggle to create a national science foundation, 1945-1950.*
- GOLDEN, Olive H. *Administration of the attorney-general's list of subversive organizations: the case of the workers party-independent socialist league.*
- GOLDSCHMIDT, Maria Iolob. *The European system between the two World Wars.*
- GOLDSMITH, Susan Jane. *Schism and decline: a study of the French Socialist Party.*
- HAIGHT, David Ernest. *Sharing of functions in Canadian federalism.*
- HARDGRAVE, JR., Robert L. *The Dravidian movement.*
- HEBERLE, Klaus H. *Modern judicial theories of federalism: an examination of the opinions of Justices Black and Frankfurter.*
- INGER, Sarah S. *Congress vs. the Supreme Court in 1868 and 1957: a re-examination of *Ex Parte McCardle.**
- LANDRY, Richard James. *The political thought of Henry Adams.*
- LEVY, Harold Lewis. *The Hindu code bill in British India.*
- LUTKUS, Theodore A. *The right to strike.*
- MC COY, David. *Patronage in suburbia.*
- MURPHY, Patrick W. *Gustav Radbruch and modern German jurisprudence.*
- NELSON, Allan Dwight. *Political implications of modern public opinion research.*
- NIEMI, Donald. *French conservatives and the 1951 electoral reform.*
- ROGIN, Michael Paul. *McCarthyism and agrarian radicalism.*
- SACHS, Stephen M. *The national security v. civil liberties in the Warren court: an episode in judicial statesmanship.*
- STEVENS, Richard G. *Reason and history in judicial judgment: Mr. Justice Frankfurter's treatment of due process.*
- TENNANT, Paul. *The influence of local school boards on central education authorities in British Columbia.*
- WEINBERG, Leonard Burton. *Aspects of Jewish political behavior.*
- WESTRATE, J. Lee. *The administrative theory and practice of Herbert Hoover.*
- WINTERS, John A. *Eisenhower--"good partner" of Latin American dictators: a critical study of United States hemispheric defense policy.*
- YONDORF, Walter F. *Europe of the Six: dynamics of integration.*
- The Claremont Graduate School
- ELLSWORTH, John William. *Humanistic ethics*
- and liberal politics: a study of the political thought of John Stuart Mill.
- FARNSWORTH, Lee Winfield. *Factionalism in recent Japanese politics: theory and practice.*
- University of Colorado
- GOMEZ, Rudolph. *Urban and rural voting in the Colorado General Assembly: 1902-1960.*
- Columbia University
- DAVIDSON, Roger H. *The depressed areas controversy: a study in the politics of American business.*
- GRUBERG, Martin. *Senatorial investigation of natural gas lobbying: a study in legislative politics.*
- HAMMER, Darrell P. *Two Russian liberals. The political thought of B. N. Chicherin and K. D. Kavelin.*
- HARTMANN, C. David. *Local currency programs and United States foreign policy.*
- HODNETT, Grey. *Mobilization within the primary party organization in the Communist Party of the Soviet Union: 1945-1961.*
- KORBONSKI, Andrzej. *Politics of Socialist agriculture: Poland 1945-1960. [Microfilming withheld until 1965.]*
- LEVINE, Arthur L. *United States aeronautical research policy, 1915-1958: a study of the major policy decisions of the NACA.*
- OSBORN, Robert J. *Public participation in Soviet city government: the vision of the future.*
- ROTHSTEIN, Robert L. *The alliance policy of small states.*
- SABALIUNAS, Leonas. *Lithuania, 1939-1940: a nation in crisis. [Microfilming withheld until 1965.]*
- SCHWARTZ, Morton. *Soviet policy and the World Federation of Trade Unions, 1945-1949. [Microfilming withheld until 1965.]*
- SORENSEN, Jay B. *The dilemma of Soviet trade unions during the first period of industrial transformation: 1917-1928. [Microfilming withheld until 1965.]*
- THOMPSON, Neil D. *The third party beneficiary status in international agreements. [Microfilming withheld until 1965.]*
- Cornell University
- NOER, Deliar. *The rise and development of the modernist Muslim movement in Indonesia during the Dutch colonial period (1900-1942).*
- REGENSTREIF, Samuel Peter. *The liberal party of Canada: a political analysis.*
- Duke University
- BLACK, Edwin Robert. *Canadian concepts of federalism.*
- MILNOR, Andrew Johnson. *Agrarian protest in Saskatchewan, 1929-1948: a study in ethnic politics.*
- Emory University
- CHAPMAN, Shirley. *The dynamics of federalism: inter-governmental fiscal relationships as reflected in metropolitan Atlanta, 1945-1960.*
- CHIARAVIGLIO, Ida M. *The Supreme Court, the national government, and states rights: an analysis of Georgia cases.*
- Fletcher School of Law and Diplomacy
- PACKARD, III, George Randolph. *Japan's reaction to the American alliance 1960: a study of Japan's political processes.*
- Georgetown University
- CARROLL, William Alexander. *The natural law and the incorporation of the provisions of the First Amendment into the due process clause of the Fourteenth Amendment.*
- COATS, Wendell J. *Armed force as power: the theory of war reconsidered.*
- DUGGAN, James Francis. *"Hot Cargo": an administrative and legislative cast study.*
- KELLIS, James G. *The development of U.S. national intelligence, 1941-1961.*
- KLETTE, Immanuel John. *Some implications of national and international aspects of outer space.*
- MAHONEY, O.P., John J. *The political philosophy of Dominic De Soto, 1495-1560.*
- George Washington University
- CRABBE, JR., William Mervin. *Consensus through slogan: the policy of unconditional surrender in the Second World War.*
- KASE, Francis Joseph. *The soviet theory of people's democracy: a contribution to the study of the proletarian state.*
- Harvard University
- ANDERSON, Stephen Sanford. *The political role of youth organizations in communist Yugoslavia.*
- CH'EN, Hsien-t'ing. *The Japanese Government and the creation of the Imperial Army, 1870-1873.*
- CUTHBERTSON, Gilbert Morris. *Political myth and epic.*
- HERNANDEZ, Eugenio Antonio. *Integration in Central America.*
- HUFF, Lee Wilfred. *Nuclear energy in Great Britain: the civil program, 1945-1957.*
- KIM, Kyung-Won. *War and ideology: a study in the French Revolutionary War 1792-1795.*
- PAREL, Anthony Joseph. *The search for the Indian political community: theory and practice in the nineteenth-century.*
- PITTAU, Joseph. *Ideology of a new nation: authoritarianism and constitutionalism, Japan 1868-1890.*
- WEINSTEIN, Brian Gilbert. *Building the Gabonese nation: the search for a new order and the role of the Fang Tribe in this process.*
- University of Illinois
- CARPENTER, Dwight Marcus. *The trend towards metropolitan government in Wichita: a case study in local decision-making.*
- GOODALL, Leonard Edwin. *State regulation of local indebtedness with special reference to Illinois and Michigan.*
- REMEIKIS, Thomas. *Communist party of Lithuania: a historical and political study.*
- TUCKER, Joseph Blanton. *A functional analysis of political patronage in nine Illinois counties.*
- Indiana University
- ABDEL-KADER, Ali Ahmed. *Concepts of nationalism: their applicability in the Arab world.*
- JIANG, Joseph Pinglun. *Political change and pariah entrepreneurs.*
- The Johns Hopkins University
- LANDYNSKI, Jacob Woolf. *Search and seizure and the Supreme Court: a study of constitutional interpretation.*
- STEPHENS, JR., Otis Hammond. *The Fourteenth Amendment and confessions of guilt: the role of the Supreme Court.*

DOCTORAL DISSERTATIONS 1962-1963

- University of Kansas**
- REEVES, JR., Earl James. Ecological change and political competition: the case of Kansas.
- University of Kentucky**
- SNYDER, James Robert. Sharing the atom: an American dilemma.
- University of Maryland**
- HAMILTON, JR., William Roy. The President's Materials Policy Commission (Paley Commission): a history and analytical inquiry into policy formation of a presidential commission.
- McGill University**
- KUNZ, Frank Andrew Ferenc. The Senate and contemporary politics, 1925-1961: a re-appraisal.
- The University of Michigan**
- HAN, Pyo Wook. The problem of Korean unification: a study of the unification policy of the Republic of Korea, 1948-1960.
- YOUNG, James Pierce. The public interest doctrine, the end of ideology thesis, and recent American liberalism: a study of reform thought.
- University of Minnesota**
- ANDERSON, Raymond V. Adoption and operation of initiative and referendum in North Dakota.
- EMENHISER, JeDon Allen. Armed politics: an analysis and comparison of six cases in the United States.
- HATHAWAY, William Lawrence. Interest in politics: measured by the readership of news about politics in a metropolitan daily newspaper, 1950-1959.
- KUBANIS, Ivan Joseph. Attitudes toward procedural rights: some psychological and sociological correlates.
- MASSMANN, Sylvester Henry. Approaches to freedom in the twentieth century.
- PETERSON, Arthur LaVerne. McCarthyism: its ideology and foundations.
- SIEGELMAN, Philip. Colonial development and the chettyar: a study in the ecology of modern Burma, 1850-1941.
- University of Missouri**
- HANSEN, Gerald Edwin. The conservative movement in Utah after World War II.
- KERR, Charles William. Politics and ideology in the kingdom of Callaway.
- TOLLERSON, III, Tandy. Absentee voting in Missouri.
- The University of Nebraska**
- LAUX, William Edward. Interest groups in Danish politics.
- New York University**
- BATAYNEK, Nasir Saad. Arab political thought between 1945-1962.
- CHAO, Paul Kwang-Yi. Analysis of Marxist doctrine on the family with testing its validity in Soviet Russia and Communist China.
- DHILLON, Naginder Singh. The Indian concept of the right of national self-determination.
- Geiger, David Martin.** British fascism as revealed in the British Union of Fascists' press.
- GRANTTHAM, Caryl Reeve.** A history of the government of Suffolk County, New York, 1683-1958.
- PAK, Hyo Bom.** The power structure of the Chinese Communist Party.
- RO, Chung Hyun.** A comparative study of manpower administration in developing countries with special reference to South and North Korea.
- Northwestern University**
- HANHARDT, Arthur Monroe.** The Deutsche Akademie der Wissenschaften zu Berlin and the organization of research in East Germany.
- The University of Oklahoma**
- KIM, Richard Chong Chin.** Jehovah's witnesses and the Supreme Court.
- REID, Bill G.** Proposed American plans for soldier settlement during World War I.
- SMITH, Cordell Audivell.** The Marshall Mission: its impact upon American foreign policy toward China, 1945-1949.
- University of Pennsylvania**
- HYMAN, Allen Arthur.** Significant factors relative to the growth and potential of the American Federation of State, County and Municipal Employees, A F of L, C I O.
- SCHINAGL, Mary Sonora.** History of efficiency ratings in the federal government.
- University of Pittsburgh**
- COLON, Frank Thomas.** Ex parte influences in federal regulatory commissions.
- Princeton University**
- FREY, Frederick W.** Political leadership in Turkey: the social backgrounds of deputies to the Grand National Assembly, 1920-1957.
- University of Redlands**
- MOORE, William J.** Ideology and economic development in China and India: a study of contrasting political approaches to the problem of agricultural development, 1951-1961.
- Rutgers - The State University**
- VOLKOMER, Walter Edward.** The political philosophy of Jerome N. Frank.
- Southern Illinois University**
- HUANG, Joe Chou.** The political theories of K'ang Liang school and their application to the reform movement in China, 1895-1911.
- SITTIG, Robert Frank.** Party slatemaking and the direct primary in Illinois and other states.
- WILLIAMS, Cleveland Alexander.** Senate confirmation: the Eisenhower years.
- Stanford University**
- BROUSE, Albert Charles.** Italian democracy and the Socialist movement: developments to the Livorno Congress (1921).
- CAMPBELL, Warren Martin.** Politics, procedures, and city planning: the master plan as an instrument of policy formulation and control.
- State University of Iowa**
- LUNINE, Myron Julius.** The response of the Indian intelligentsia to the Pasternak affair: a study in the politics of art.
- WALKER, JR., Jack Lamar.** Protest and negotiation: a study of Negro political leaders in a southern city.
- Syracuse University**
- AL-SAMARRAIE, Mutib Munaf.** A blue-print for a socio-educational model based on selected theories of social change to meet the demand for change in a developing country.
- BANKS, Melvin James.** The pursuit of equality: the movement for first class citizenship among Negroes in Texas, 1920-1950.
- GROAT, Charles.** Political greenbackism in New York State, 1876-1884.
- MIWA, Paul.** The state convention: the nomination-making process in New York State.
- OSSMAN, Albert.** The development of Canadian foreign policy: with particular emphasis on the period 1943-1953.
- RICE, Andrew.** Building a constituency for the foreign aid program: the record of the Eisenhower years.
- The University of Tennessee**
- CONDON, George A.** The politics of the social justice movement.
- The University of Texas**
- GABBERT, Jack Benton.** The evolution of the Mexican presidency.
- GANTT, JR., Fred.** The chief executive of Texas: a study in gubernatorial leadership.
- GRUPENHOFF, John Theodore.** Politics and the rise of political parties in the northwest territory and early Ohio to 1812 with emphasis on Cincinnati and Hamilton County.
- University of Utah**
- ABRAMS, Milton C.** The political philosophy of Christopher St. German.
- ANDERSON, Donald Warren.** The slavery issue at the constitutional convention of 1787.
- FURLONG, William Leon.** Factors of three Argentine revolutions 1943-45, 1955, 1962.
- University of Virginia**
- CARMACK, David English.** Law in French diplomacy from the Treaty of Westphalia to the French Revolution, 1648-1789.
- SNOW, Peter Gordon.** The radical parties of Chile and Argentina.
- WEASMER, Charles Brent.** The politics of the disruption: a study of the relationship between church and state in Scotland, 1834-1843.
- Washington University**
- DINKA, Frank.** Church and state in Poland: political conflict between the Catholic church and the Communist regime.

POLITICAL SCIENCE

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KELLY, Joseph Power. A study of the 1960 primary and general election campaigns for United States House of Representatives in Montana's second congressional district.

KULKARNI, Govind Manik. The development of government corporation: a comparative study in the United States and India.

University of Washington

BRADLEY, John Pickering. Party platforms and party performance: social security, 1920 - 1960.

LEAVEL, Willard Hayden. Congressional variables and presidential leadership.

The University of Wisconsin

BIBBY, John Franklin. Legislative oversight of administration: a case study of a congressional committee.

KOMMERS, Donald Paul. The development and reorganization of the Wisconsin court system.

KRUSCHKE, Earl Roger. Female politicals and apoliticals: some measurements and comparisons.

Yale University

ALKER, JR., Haywood Rose. Dimensions of voting in the United Nations.

HARGROVE, JR., Erwin Charles. The tragic hero in politics: Theodore Roosevelt, David Lloyd George, Fiorello LaGuardia.

SILBERDICK, Barbara Jane. The political thought of Oliver Cromwell: the search for a stable constitutional order.

International Law and Relations

The American University

EL-BAKRI, Adnan H. Compensation for nationalized foreign enterprise.

FLAPAN, Maxwell. Penetrating nationalism: the agencies of the United Nations.

PATTON, John Strohm. The historical background of the Iraqi revolution - international and internal problems: 1918-1945.

ROBINSON, Donald Louis. Editorials of American purpose: a content analysis of selected newspaper editorials concerning international relations.

TYSON, Brady Bradford. Herbert Butterfield's concept of international relations: an analysis and comparison of a Christian approach.

University of California, Berkeley

HANRIEDER, Wolfram F. International system and foreign policy: the foreign policy goals of the Federal Republic of Germany.

LINDBERG, Leon Nord. The political dynamics of European economic integration.

University of Chicago

BURD, Frank Albert. United States policy in Laos, fall, 1959 - spring, 1961.

GLAD, Betty. Charles Evans Hughes' conceptions of international relations.

HARRIGAN, John J. Foreign affairs and the presidential election of 1960.

JANGAM, Ramling Tatoba. An Indian view of the recent developments in Sino-Indian relations and their impact on India's foreign policy.

KENNEDY, Jesse C. American foreign policy in China, 1937-1950: an analysis of why it failed.

KIM, Han Kyo. The demise of the Kingdom of Korea: 1882-1910.

KIM, Yoon Young. National images of Korea, 1850-1910: a study on the national survival of a small power.

LEE, Oliver. National interest and ideology in Communist China's foreign policy.

LUKASZ, Elena. Ukraine at the Paris Peace Conference: 1919.

MACIUIKA, Benedict V. The Baltic states under Soviet Russia: a case study in sovietization.

SIMANDJUNTAK, M. Asal. The Australian role in the Indonesian-Dutch dispute between July 21, 1947 and December 27, 1949.

STARR, Emil. The British Labour Party and the Soviet Union: leadership and dissent, 1939-1949.

SULTAN, Allen Nathan. The United Nations arbitration convention and United States policy.

THORP, Earl David. The role of Tibet in India-China relations.

WATERMAN, Harvey. Europe and strategic weapons: implications for American foreign policy.

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- HEIMBERG, Laura Kagan. The measurement of future time perspective.
- KOEN, Frank Michael. Semantic constancy: the stability of word meanings in relation to contextual differences.
- SUNDBY, Elmer Arthur. A study of personality and social variables related to conformity behavior.

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- LaPERRIERE, Kitty Frank. Maternal attitudes in different subcultural groups.
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- DIGNAN, B.V.M., Sister Mary Howard. Ego identity, identification, and adjustment in college women.
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- DUKE, Robert Bradford. Manifest anxiety as avoidance behavior.
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- KLETT, William Gregory. An attitude scale for the assessment of morale in a psychiatric hospital.
- MEYER, Marv L. Identification in psychotherapy as measured on a problem solving task.
- QUINN, Thomas Leo. Differences in motivational patterns of college student brothers as revealed in the TAT, the ratings of their peers, and the ratings of their superiors: a comparison.

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- MAUPIN, Barbara Ann Millbrook. The effect of altered ego states on the utilization of subliminal registrations of color.
- MENDELSON, Robert Alan. The effects of cognitive dissonance and interview preference upon counseling-type interviews.
- MENLOVE, Frances Lee Anderson. Acting out behavior in emotionally disturbed adopted children.
- SILVERMAN, Julian. Noxious cue sensitization in schizophrenia.
- TOBIN, Stephan Alexander. Categorization styles as a function of category width and level of abstraction.
- WEINGARTEN, Linda Lee. Correlates of ambivalence toward parental figures.
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- ELLSWORTH, Sterling Grant. Consistency of counselor feeling-verbalization in and outside the client-counselor relationship.
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MAES, John LeoPold. Identification of male college students with their fathers and some related indices of affect expression and psychosexual adjustment.

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PRYOR, David Bruce. Regression in the service of the ego: psychosexual development and ego functions.

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BYRNES, Francis C. Americans in technical assistance: a study of men's perceptions of their cross-cultural experience.

DYER, Delwyn Arthur. Self-concept, role internalization, and saliency in relation to 4-H leader effectiveness.

GOODMAN, Marvin. A pilot study of the relationship between degree of expressed self-acceptance and interspousal need structure in the mate selection process.

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MEISELS, Joseph Frederick. Self-conception, job-perception and job-satisfaction of social workers.

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THORESON, Richard Wallace. An analysis of mental patient role perceptions: own and attributed norms.

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CLOYD, Jerry Stephen. Patterns of role behavior in small social systems.

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ACKER, Martin Herbert. The relationship between vocational rehabilitation of selected California vocational rehabilitation service clients and some pre-morbid occupational factors.

BOWMAN, Garda Brown Wise. The image of promotable person in business enterprise.

BRUNDIDGE, Arthur DuBois. Rehabilitation therapy and psychosocial adjustment.

CROOTOF, Charles. Bright underachievers' acceptance of self and their need for achievement.

GOLDEN, Lester Monroe. An inquiry into empathy and a consideration of the relationships to insight, adjustment, and autonomy-conformity and the possible influence of socio-cultural expectations of sex and career.

GRUEN, Richard Edouard. A study of attitude change in self-concept among liberal arts college students.

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HOLMES, Douglas. The relation between the relative effects on job-satisfaction of on-the-job fulfillment of work-related needs.

LAUNER, Philip T. The relationship of given interest patterns to certain aspects of personality.

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LEVINSON, Elias. Effects of motion pictures on the response to narrative.

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MORGENSTERN, Anne. A comparison of the effects of heterogeneous and homogeneous (ability) grouping on the academic achievement and personal-social adjustment of selected sixth-grade children.

PUTNAM, Phyllis Adeline. Social class and interpersonal interaction in young children.

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ROBBINS, Herbert. Field articulation: its relationship to reading disability and social class.

SMITH, Inez Lois. The invariance of educational attitudes and their relation to social attitudes: an inverse factor analytic study.

STRAUSS, Dorothy. The relationship between perception of the environment and the retrenchment syndrome in a geriatric population.

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ROTHSCHILD, Constantina Safilios. The reaction to disability in rehabilitation.

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- SEBALD, Hans.** Parent-peer control and masculine-marital role perceptions of adolescent boys.
- WEICK, JR., Karl Edward.** The reduction of cognitive dissonance through task effort, accomplishment and evaluation.
- The University of Rochester
- SILVERMAN, Irwin.** An experimental investigation of the relationships of self-esteem to defense mechanism preference and persuasibility.
- St. Louis University
- BURNETT, Calvin Wilks.** A change in meaning of selected social roles and social behavior as a measure of effect a psychiatric rehabilitation house has on the patient: a study in resocialization.
- MILLER, Stephen John.** The nurse's perception and the patient's expectation of the nursing role: a study of patient satisfaction with care.
- WASSEF, Wassef Youssef.** Effects of early mother-child separation on the personality of the child.
- Stanford University
- GLASS, Edward Joseph.** A study of institutional religious behavior and security-insecurity feelings: a comparative study of religious and non-religious respondents.
- MILES, Raymond Edward.** Management theory as a factor in manager-superior relationships.
- PAIN, Frank Tobey.** Some determinants and effects of status consensus.
- RARICK, Galen Ronald.** Effects of two components of communicator prestige.
- WALSTER, Elaine Catherine Hatfield.** Post-decisional re-evaluation of alternatives: regret and dissonance reduction.
- State University of Iowa
- BRUNING, James Leon.** Direct and vicarious effects of a shift in magnitude of reward on performance.
- SIMMONS, Jerry Laird.** The relationships between attitude position, alienation, and personal disturbance.
- State University of New York at Buffalo
- DANI, Shankar Krishna.** Level of aspiration as a function of need for achievement and fear of failure.
- The University of Tennessee
- ROBERTSON, Leon Spurgeon.** An empirical study of some relationships among parental roles and reaction to frustration.
- The University of Texas
- HARVEY, Jerry Bankston.** Type of influence, magnitude of discrepancy and degree of dogmatism as determinants of conformity behavior.
- LIBERTY, JR., Paul Gerhard.** Response bias in measures of value achievement.
- WILLIAMS, Martha Jane Shipe.** Reference group relationships and dogmatism as determinants of influence and interpersonal conflict.
- University of Utah
- DAY, John Marshall.** A study of protest to adaptation.
- Vanderbilt University
- CARLSON, Verlin Dennis.** The resolution of photographic and labelling factors in affective impressions.
- University of Washington
- RULE, Brendan Gail.** The effects of distance and homogeneity of group judgments on an individual's normative behavior.
- The University of Wisconsin
- MORRISON, Denton Edward.** Achievement motivation: a conceptual and empirical study in measurement validity.
- PYRON, Bernard.** Accuracy of interpersonal perception as a function of consistency of information.
- SOCIAL WORK**
- Brandeis University
- COUGHLIN, S.J., Bernard J.** Church and state in social welfare.
- GOLDIN, George J.** The function of statistical reporting procedures in the state rehabilitation agency.
- KANTOR, David.** Intervention into multiple patterns of insularity in a custodially organized mental hospital.
- KRAVITZ, Sanford L.** Sources of leadership input for social welfare planning.
- MOGULOF, Melvin B.** Sectarian practices in a social agency: the development of uni-dimensional scales measuring distinguishing practices in 97 Jewish community centers and associations between these practices and certain community, agency and leadership characteristics.
- The Catholic University of America
- MULLANEY, Joan Ward.** Fifteen treatment programs provided by the Sisters of the Good Shepherd in the New York Province with particular reference to the teachings of Mother Euphrasia.
- SIMSARIAN, Frances Parsons.** Attitudes of women residing in the Bethesda area of Montgomery County, Maryland, regarding caring for children not their own.
- University of Chicago
- FINLAY, Donald Gordon.** Role network pressure and the approach to treatment by alcoholic patients.
- HARTFORD, Margaret E.** The social group worker and group formation.
- Columbia University
- GRANICH, Belle.** Teachers and social work in the New York City schools: perspectives on child guidance.
- KELLEY, Joseph B.** Racial integration policies of the New York City housing authority, 1958-1961.
- LEVENSTEIN, Sidney.** Social caseworkers in private practice: a study of social change.
- McGUIRE, Rita A.** A study of field instruction using the critical incident technique.
- NASH, Marygold V.** A study of attitudes of a group of non-handicapped people towards the orthopedically handicapped.
- University of Southern California
- FULLER, Albert Dwane.** The values of social workers.
- MORRISSEY, James Richard.** Children's adaptation to fatal illness in a family-oriented hospital program.
- University of Utah
- CHIPMAN, Bevan Moyle.** Social work graduates, University of Utah 1938-1962. Part I: Mobility.
- COLEMAN, Robert Sykes.** Psychotherapy of married couples groups involved in treatment at a veterans mental hygiene clinic, Utah, 1963. Part I: Veteran and spouse.
- DAVIDSON, R. Reid.** Social work graduates, University of Utah 1938-1962. Part II: Salaries.
- DECKER, Irving H.** Characteristics of alcoholic patients in a Veterans Administration hospital, Utah 1956-1961. Part I: Alcoholic patients.
- REID, William J. An experimental study of methods used in casework treatment.
- ROTHMAN, Beulah. Processes of socialization to the profession of social work.
- TRIPODI, Tony. Information transmission in clinical judgments as a function of stimulus dimensionality and cognitive complexity-simplicity.
- TURNER, Francis J. Social work treatment and value differences.
- YOUNG, Leontine R. The behavior syndromes of parents who neglect and abuse their children.
- Columbia University Teachers College
- PINS, Arnulf Max. Exploratory study of factors influencing career choices in social work.
- Cornell University
- BOHANAN, Samuel Clifford. Factors affecting a program for older people in a low-income rural area.
- University of Pennsylvania
- ASKWITH, Gordon Kingsford. A follow up study of neglectful parents.
- GARBER, Ralph. Role and task expectations for the part-time field instructor in social group work.
- GIL, David Georg. Post-service experience, feeling and psycho-social functioning of foster children in relation to pre-service life experiences and developmental potential, and to service circumstances and experiences.
- GILBERT, Dorothea. Social work students and their educational outcome.
- LANE, Lionel Charles. Jane Addams as social worker, the early years at Hull House.
- LEVIN, Herman. A history of the child and family services of Portland, Maine.
- MUKUNDARAO, Kathirisetti. Perceptions of community need and its resolution: a case study of a community effort to protect its neglected children.
- PLUTCHOK, George Nathaniel. Supervision in group-service agencies: its universality and particularity.
- WALKER, Dollie Rosemand. A study of elementary school teachers' perceptions and evaluations of the role of the school social worker.

DIXON, Donald R. Vocational and social adjustment of clients in selected age groups, rehabilitated by state divisions of vocational rehabilitation 1957-1959. Part X: The unemployed.

GABLER, John S. Review of social work literature on family strengths, 1963.

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GIBBONS, Willard Eugene. Patients at the University of Utah alcoholism clinic, 1957-1963. Part II: Married males.

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WALUM, Laurel Richardson. Pure mathematics: a study in the sociology of knowledge.

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ENNIS, Philip H. The contextual dimension in voting.

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HAWVER, Carl F. The congressman's conception of his role: a study of the use of public opinion polls by members of the United States House of Representatives.

MEDISH, Vadim. The first congress of the Russian Social Democratic Workers' party.

STONE, Anthony Robert. The relationship of judgments of severity of emotional illness in children and parental concordance in expressed attitudes.

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BOSSERMAN, Charles Phillip. Georges Gurvitch's sociology of the total social phenomena.

BROYLES, John Allen. The John Birch society as a movement of social protest of the radical right.

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BLAUNER, Robert. Alienation in work: the diversity of industrial environment.

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HONER, Stanley Maxfield. The theory of cultural differences.

POGGI, Gianfranco. Italian Catholic action: a case study of a sponsored organization.

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BRANDMEYER, Gerard Augustine. Status crystallization and political behavior: a replication and extension of research.

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MEIER, Dorothy Louise. Anomia, life chances, perceived achievement, and modes of adaptation.

PETERSEN, Eleanor Langston. Some role dimensions of loyalty: a study of obligations and privileges associated with attitudes of loyalty toward parents, friend, and country.

SCHWENDINGER, Herman. The instrumental theory of delinquency, a tentative formulation.

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VAN DER MERWE, Henk Willem. Leadership in a Saskatchewan community: the impact of industrialization.

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BUCK, Vernon Ellis. Job pressures on managers: sources, subjects, and correlates.

CARROLL, John Joseph. The Filipino manufacturing entrepreneur: a study of the origins of business leadership in a developing economy.

CONNOR, Desmond Maurice. Toward a theory of selective migration and residence.

GAUDREAU, Lorraine Norma. Stereotypes of the blind toward the sighted in contemporary American society.

GRIMES, Walter Francis. Social status and role perception: patients' views of the differences between the ideal role expectations and actual role performances of the physician.

HUDSON, John Boswell. Feminine roles and family norms in a small city.

McNAMARA, Robert Joseph. The interplay of intellectual and religious values.

PFANNER, David Eugene. Rice and religion in a Burmese village.

SGAN, Mathew Robert. Sociology and the field of college personnel work.

WILCOX, John. A search for the multiple effects of grouping upon the growth and behavior of junior high school pupils.

Duke University

KIMBERLY, James C. An experimental test of a theory of status equilibration.

RAWLS, Horace Darr. Education and social participation: a factorial analysis.

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SIMMS, James Carroll. Values and status variables as determinants of academic achievement.

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CAHOON, Sister M. Janelle. Tensions and dilemmas facing organized Christianity in the contemporary United States as recognized in official church statements.

DOHERTY, S.J., Rev. John F. A study of change in the religious and social attitudes of 85 members of the Christian Family Action Movement in a suburban parish.

Harvard University

ADAMS, Everett Merle. A functional interpretation of social stratification.

FORSYTHE, Sidney Alexander. Missionaries and Chinese: a descriptive case study of the responses of American Board missionaries to selected aspects of the setting of their work, 1895-1905.

LAZURE, Jacques Marcel. The definition of the priest-teacher's role: role theory applied to an empirical survey.

NAMENWIRTH, Joseph Zvi. Bureaucratic power and European unification.

NEAL, Sister Marie Augusta. Values and interests in the process of social change.

PERRY, Steward Edmond. Social processes in psychiatric research: a study in the sociology of science.

SCARR, Harry Alan. Measures of variation: continuities in the study of value orientations.

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CAREY, James William. Communication systems and social systems: two economic postulates applied to a theory of communication systems.

WHITE, Julie Ellen. Dimensions of conformity and evasion in residence halls for university women: a sociological analysis of normative behavior in a large-scale social organization.

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CHAMBLISS, William Joseph. The selection of friends.

CHILTON, Roland Judson. Social factors and the residential distribution of official delinquents, Indianapolis, Indiana, 1948-50 and 1958-60: a statistical study.

DAVID, Pedro Rubens. The social structure of Argentina.

HORNING, Donald Neal M. Blue collar theft: a study of pilfering by industrial workers.

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POWERS, Ronald Clair. Social power in a rural community.

University of Kentucky

PAYDARFAR, Ali Akbar. Modernization and demographic characteristics of Iranian provinces and selected nations.

Université Laval

McGUIGAN, Rev. Gerald Frederick. Land policy and land disposal under tenure of free and common socage, Quebec and lower Canada, 1763-1809.

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DOLAN, Robert John. An analysis of the role structure of a complex occupation with special emphasis on the value and role orientations associated with the county agent situs.

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FELDT, Allan Gunnar. The local ecological community: an investigation of relative independence in an urban society.

JITODAI, Ted Teruo. Migration, mobility and social participation.

LADINSKY, Jack. Career development among lawyers: a study of social factors in the allocation of professional labor.

LIND, Roger Murray. Organizational structure and social worker performance: a preliminary inquiry.

POPE, Hallowell. Economic deprivation and social integration in a group of "middle class" factory workers.

REICHLER, Melvin Litwack. Community power structure in action.

RITTENHOUSE, Ruth Rue. A theory and comparison of female and male delinquency.

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ANDERSON, Robert Charles. A method and instrument for predicting the consequences of intra-organizational action.

BEALER, Robert Charles. The differential distribution of market news functions: an interpretive study of selected structural dimensions.

CASLER, Darwin Jerome. The evolution of the code of professional ethics of the American Institute of Certified Public Accountants.

GOLDKIND, Victor. Factors in the differential acculturation of Mexicans in a Michigan city.

HOLLOWAY, Robert Gordon. Systemic linkage, influence and control in a hospital decision-making structure: a cross-validation study.

JESSE, Clinton Joyce. An exploration of factors affecting social participation of professionals in rural areas.

RODNER, Kim. Social change and the unified science perspective: the resource control movement in industrial society.

WATTS, Henry James. Methodological problems in the measurement of values.

WESTBY, David Leroy. A study of status arrangements in three Michigan communities.

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ADAMS, Mary. Functionalism versus social behaviorism in the current sociology of illness: a test of the empirical adequacy of theory.

CARO, Francis George. A social class comparison of attitudes of male high school students towards college and dominant occupational goals.

NANDY, Santosh Kumar. The traditional and the modern in the idea of social change in post-independence India.

RYBNICEK, Edward H. The changing church in the changing city.

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PALISI, Bartolomeo Joseph. Ethnicity, family structure, and participation in voluntary associations.

New School for Social Research

ALMAN, Emily A. Apperceptions of self and society; an hypothesis.

MATLIN, Norman. A heuristic model of education.

SELIGSON, Henry. Social and educational aspects of the occupational interests of school children.

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HUBIN, Dorothea. An analysis of the juvenile conference committees of New Jersey.

KLEIN, Ralph. The self-image of adult males in an Andean culture.

PUTTER, Harmon. A comparative study of first time and experienced campers in relation to selected characteristics and experiences.

ROSENBERG, Jerry Martin. Perception of automation issues, worker background, and interpersonal behavior.

ROSOVE, Perry Elias. The democratization of yachting.

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STROUP, Mary Jane. A comparative and critical examination of methods of analyzing social conflict situations in the area of international relations.

- TUMARKIN, Irving. A comparative study of selected impulsivity characteristics of male driving violators and non-violators.
- VERTUN, Hanner. Two modes of self-experience.
- WHITE, Jerome David. Autocratic and democratic leadership and their respective groups' power hierarchies and morale.
- WU, Yuen-chi. Attitudes of individuals with visible and invisible physical impairments toward their disability.
- YOUNG, Arthur K. The relationship of client expectation and counselor perceptiveness to the client's willingness to use a counseling service.

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at Chapel Hill

- KAPLAN, Berton H. Social change, adaptive problems, and health in a mountain community.
- KIMBROUGH, JR., Emory. The executive and the community: community and company characteristics as they relate to the participation of the business executive in community affairs.

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- McHUGH, Peter Spencer. Order and disorder in social time and space.
- SUNSHINE, Morris H. Anomie, alienation and norm compliance.

The Ohio State University

- DONALD, Ernest Paul. Self-concept of sixth-grade boys: a study of delinquency proneness.
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- SCARPITTI, Frank Roland. Differential socialization: the delinquent versus the nondelinquent.

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- MEISSNER, Martin. Behavioral adaptations to industrial technology.
- PAULUS, Caleb R. The impact of urbanization on fertility in India.

University of Pennsylvania

- BURNHAM, Kenneth Edward. Father Divine: a case study of charismatic leadership.
- LEVINSON, Perry. The relationship between sibling position and reading ability.
- MILLER, Ann Ratner. State labor force trends and differentials in the United States from 1870-1950.

The Pennsylvania State University

- FAULKNER, Joseph Edward. Attitudes associated with differential participation in the church on the part of labor union members.
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- TAYLOR, Carl Beck. Commuting and community participation.
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- ZAWACKI, John Stanley. The system of unofficial rules of a bureaucracy: a study of hospitals.

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- CHAPLIN, David. The recruitment of the Peruvian industrial labor force.

Purdue University

- PERRUCCI, Robert. Social status, goals and rewards: a study in the social organization of a psychiatric ward.

- ROBIN, Stanley Shane. A comparison of male-female student roles in engineering.

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- KOCH, S.S.N.D., Sister Mary Rosewyn. The family background of influentials.

- ONWUACHI, Patrick Chike. Religious concepts and socio-cultural dynamics of Afro-American religious cults in Saint Louis, Missouri.

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- PENALOSA, Fernando. Class consciousness and social mobility in a Mexican-American community.

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- TALLMAN, Irving. An experimental study of normlessness.

- WALDO, Leslie Carleton. The educational aspirations of early adolescent boys: a sociological study.

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- HARRIS, Edward Eugene. The influence of prospective activities on family behavior, expected social mobility, the potential to migrate, motivation and value-orientations.

- SCHWIRIAN, Kent Paul. Residence and social participation.

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- FARARO, Thomas John. A study of participation nets.

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- HANGA, Fred. Public school capital formation and monetary policy: an empirical study covering the period 1948 to 1960.

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- VOIGT, David Q. Cash and glory: the commercialization of major league baseball as a sports spectacular 1865-1892.

- ZIKRY, Abdel. Socio-cultural determinants of human fertility in Egypt U.A.R.

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- ALLEN, Donald Floyd. Changes in the role of the American university professor.

- BRADY, Robert Cletus. Personality and society as interpenetrating action systems: a review and assessment of Talcott Parsons' personality development-socialization theory.

- LABOVITZ, Sanford Irwen. Technology and division of labor.

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- ATKINSON, Geraldine Nielson. Concepts of aging persons, Salt Lake City, 1963.

- COMPTON, John H. Interpersonal relationships in a Salt Lake City neighborhood, 1963. Part I: Eastside.

- CRAMPTON, Helen M. Occupational choice and mobility in two groups of high school seniors.

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- GREGG, Charles E. Medical doctor specialization: a system approach.

- PECK, Darrell L. Interpersonal relationships in a Salt Lake City neighborhood, 1963. Part III: Indian Hills.

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- SCHOONOVER, Elda M. Patients at University of Utah alcoholism clinic, 1957-63. Part I: Single males.

- SMITH, Phillip Colton. The adjustment to military life in the National Guard.

- SMITH, Stewart Crane. Characteristics of students released from Utah State Industrial School, 1961. Part II: White boys.

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- DEUTSCHBERGER, Paul. Role and feedback in the management of the social encounter.

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KNEPPRATH, Hubert Eugene. The elements of persuasion in the nationally broadcast speeches of Eisenhower and Stevenson during the 1956 presidential campaign.

LEITNER, Margaret Ann. A study of the effects of intraphrase rate and pause time on information gain and speaker image.

MILLER, George Henry. An evaluative study of short term intensive speech therapy for adolescent stutterers.

SCHARFENBERG, Jean. Lee Strasberg: teacher.

VINCENT, James Edwin. Freedom and responsibility: an introductory essay on existential themes in American drama.

WADE, Elizabeth Ruth. An experimental study of auditory perception of speech patterns by normal hearing children.

WIESEN, Pearl. *Twelfth Night*: a stage history.

ZOOLOGY

University of Alabama

HOLLIMAN, Dan Clark. The mammals of Alabama.

University of Arizona

DAVIS, Russell Price. Homing in bats.

HEATH, Wallace Gordon. Maximum temperature tolerance as a function of constant temperature acclimation in the Gila top minnow (*Poeciliopsis occidentalis*).

MITCHELL, Henry Andrew. Respiratory physiology and anatomy in certain members of the chiropteran family Molossidae.

Auburn University

SHOFFEITT, Paul E. Comparative studies with certain antidotes for organophosphate poisoning.

TIMMERMAN, JR., James Anderson. Toxicological studies of organophosphate anthelmintics.

Boston University

THEODORIDES, Vassilios John. The morphology and physiology of *Tribolomonas gallinarum* Martin and Robertson, 1911, with special reference to electron microscopy and sugar fermentation.

University of California, Berkeley

BARNES, Allan Marion. A revision of the genus *Anomiopsyllus* Baker 1904 (Siphonaptera: Hystrichopsyllidae) with studies on the biology of *Anomiopsyllus falcicalifornicus*.

CATTS, JR., Elmer Paul. The biology of *Cuterebra latifrons* Coq. (Diptera: Cuterebridae).

DAHLSTEN, Donald Lee. The bionomics of pine sawflies, *Neodiprion fulviceps* complex, in a California brushfield plantation (Hymenoptera: Diprionidae).

FORBES, Albert Ronald. The morphology, histology, and fine structure of the gut of the green peach aphid, *Myzus persicae* (Sulzer).

HUSSEINY, Mohamed Mamdouh. Sterilization by gamma radiation for the control of the navel orangeworm *Paramyelois transitella* (Walker) (Lepidoptera: Phycitidae).

KONRAD, Carol Guze. Protein synthesis and ribonucleic acid synthesis during mitosis in animal cells.

KOPELOVICH, Levy. Investigation of enzymatic activities in relation to resistance in the housefly, *Musca domestica* Linnaeus.

LINDQUIST, Evert Esplin. A revision of mites of the subfamily Blattisocinae (Acarina: Blattisocidae) in America north of Mexico. Part I. Introduction. Part II. Taxonomy of the blattisocine genera excepting *Proctolaelaps* Berlese.

NEWMAN, William Anderson. Adaptive behavior and physiology of estuarine barnacles.

OUTKA, Darryll Elliott. Nutritional and morphogenetic studies of the amoeba-flagellate, *Tetramitus rostratus* Perty.

PENNELL, James Thomas. The development and evaluation of Dieldrin resistance in a laboratory colony of *Culex quinquefasciatus* (Say).

ZOOLOGY

- ROBERTS, Don Raoul. Rodent movements in a cutover forest of the Sierra Nevada, California.
- SCHUSTER, Frederick Lee. An electron microscope study of the amoeba-flagellate, *Naegleria gruberi* (Schardinger).
- WILHOFT, Daniel Charles. Seasonal changes in the gonads and thyroid in a tropical lizard, *Leiolopisma rhomboidalis*.

University of California, Davis

- CLARK, Glen W. Biological studies on the leucocytozoon sp. in the yellow-billed magpie, *Pica nuttalli*.
- HEWITT, Robert Burns. Early embryology of the two-spotted spider mite *Tetranychus telarius* (L.) (Acarina: Tetranychidae).
- NICKLE, William Robert. The endoparasitic nematodes of California bark beetles with descriptions of *Bovienema* n. g. and *Neoparasitylenchus* n. subg. and with the presentation of new information on the life history of *Contortylenchus elongatus* n. comb.

University of California, Los Angeles

- CARPENTER, Roger Edwin. A comparison of thermoregulation and water metabolism in the kangaroo rats, *Dipodomys agilis* and *Dipodomys merriami*.
- GRAFF, Darrell Jay. Some aspects of the carbohydrate metabolism of *Moniliformis dubius* (Acanthocephala).
- LEVI, Elaine. The preparation of tumor-specific antisera by the use of artificial immunological tolerance.

- TUCKER, Vance Alan. The energetics of the torpor cycle in the California pocket mouse *Perognathus californicus*.

- WARREN, James Wolfe. Growth zones in the skeleton of recent and fossil vertebrates.

University of Chicago

- BOND, Charlotte Roe. The golden hamster (*Cricetus auratus*): care, breeding, and growth.
- BREWER, Nancy Lasher. Sex differentiation of the fetal mouse *in vitro*.
- JOLICOEUR, Pierre. The degree of generality of robustness in *Martes americana*.
- PIDDINGTON, Ronald. Hormonally-initiated differentiation of the chick embryo oviduct.
- PRZYBYLSKI, Ronald Joseph. Cytodifferentiation of the pancreatic acinar tissue of the chick.
- SMITH, Clare Dodson. The effects of castration and androgen replacement on the reproductive tract of *Phrynosoma cornutum* during the breeding season.
- SPIELER, Richard Arno. Genic control of chromosome loss and nondisjunction in *Drosophila melanogaster*.
- VON HENTIG, Roland T. A collection of Bornean termites.
- WENZEL, Rupert Leon. A monograph on the genus *Margarinotus* Marseul.

University of Cincinnati

- DAWSON, John E. D. Effect of sodium tolbutamide on pregnant albino rats and their young.

University of Colorado

- QUINN, Barry George. Seasonal plankton studies on a Colorado mountain flowage.

Colorado State University

- HIBLER, Charles Phillip. Onchocercidae (Nem-

- otoda: Filarioidea) of the American magpie, *Pica pica hudsonia* (Sabine), in northern Colorado.

- LEIBY, Paul Dewitt. Taxonomic and biological studies on the nematodes *Amidostomum* (Strongyloidea) and *Epomidiostomum* (Trichostrongyloidea) occurring in the gizzards of waterfowl.

- LYONS, Eugene Thomas. Biology of the hookworm, *Uncinaria lucasi* Stiles, 1901, in the northern fur seal, *Callorhinus ursinus* Linn. on the Pribilof Islands, Alaska.

Columbia University

- BARR, Harold Jay. Effect of exogenous thymidine on the mitotic cycle. [Microfilming withheld until 1965.]

- RYAN, Ann M. Studies on the cross-induction process in *Escherichia coli* K12.

- SHAH, Vinodkant C. Autoradiographic studies of the effects of antibiotics, amino acid analogues and nucleases on the synthesis of DNA.

- VAN VALEN, Leigh. A study of fluctuating asymmetry.

- WACHTEL, Allen W. The ultrastructure of electric organs and its relation to muscle.

- WEISBROT, David R. Studies on differences in the genetic architecture of related species of *Drosophila*.

- YANAGISAWA, Kaichiro. Studies on the mechanism of abnormal transmission ratios at T locus in the house mouse.

- YANAGISAWA, Keiko O. The genetic regulation of beta-falactosidase synthesis in *E. coli*. I. The reaction of repressors under genetic control. II. A repressor not inactivated by inducers.

The University of Connecticut

- SWEET, II, Merrill Henry. The biology and ecology of the Rhyparochrominae of New England (Heteroptera: Lygaeidae).

Cornell University

- ELLINGTON, John Joseph. Field and laboratory observations on the life history of the onion maggot *Hylemyia antiqua* (Miegen).

- FERGUSON, John Carruthers. The physiological mechanisms of nutrient transport in the starfish, *Asterias forbesi*.

- HOMAN, Elton Richard. The influence of some environmental factors on the appraisal of experimental housefly control in dairy barns in New York state.

- McKITTRICK, Frances Ann. Evolutionary studies of cockroaches.

- ROTHSCHILD, Brian James. The life history of the alewife, *Alosa pseudoharengus* (Wilson), in Cayuga Lake.

- STIVEN, Alan Ernest. Experimental studies on the epidemiology of the host-parasite system, hydra and *Hydramoeba hydroxena* (Entz).

University of Delaware

- HESS, Paul Warren. Glucose and fructose in the maternal and fetal dogfish *Squalus acanthias* and *Mustelus canis*.

Duke University

- COLINVAUX, Paul Alfred. The environment of the Bering land bridge.

- DAVIS, Luckett Vanderford. Insects of the herbaceous strata of salt marshes in the Beaufort, North Carolina, area.

- DOUGLAS, Donald Sterling. Salt and water metabolism of the Adelie penguin.

- HUGHES, Maryanne Robinson. Studies on renal and extrarenal salt excretion in gulls and terns.

- KING, Elizabeth Norfleet. The effects of osmotic changes on respiration in four decapod crustacea: a comparison of intact animals, excised tissue and isolated mitochondria.

- MURPHY, Ted Daniel. Amphibian populations and movements at a small semi-permanent pond in Orange County, North Carolina.

- THOMPSON, John Richard. The bathyalbenthic Caridean shrimps of the southwestern North Atlantic.

The University of Florida

- BROOKS, JR., Garnett Ryland. Population ecology of the ground skink, *Lygosoma laterale* (Say).

The Florida State University

- DAMIAN, Raymond Traian. An analysis of some *Schistosoma mansoni* antigens, including antigens in common with the mouse host.

- MACINNIS, Austin J. Chemical attraction of *Schistosoma mansoni* Miracidia.

University of Georgia

- BUSH, Francis Marion. Effects of light and temperature on the annual cycle of fat, the amount of liver carbohydrate, and the lean weight of *Bufo fowleri*.

- DAVIS, Robert. Some Georgia Eriophyidae including four new species with special reference to the autecology of *Rhynacus breitlowi*, new species.

- HANSON, William Lewis. Speciation in the Trypanosomatidae.

- JORDAN, Helen Elaine. Studies on the life history of *Brachycoelium mesorchium* Byrd, 1937 (Trematoda: Brachycoeliinae).

- KAHL, JR., Marvin Philip. Food ecology of the wood stork in Florida.

- PROVO, Marvin Monroe. The role of energy utilization, habitat selection, temperature and light in the regulation of a *Sigmodon* population.

University of Hawaii

- BEARDSLEY, JR., John Wyman. The coccoidea of Micronesia (Homoptera).

- JOHANNES, Robert Earl. Uptake and release of phosphorus by representatives of a coastal marine ecosystem.

- STEVENSON, JR., Robert A. Life history and behavior of *Dascyllus albisella* Gill, a pomacentrid reef fish.

- THOMSON, Donald Arthur. A histological study and bioassay of the toxic stress secretion of the boxfish, *Ostracion lentiginosus*.

- WALSH, Gerald Edward. An ecological study of the Heeia mangrove swamp.

Howard University

- BOGGS, JR., Nathaniel. The infraciliature of three species in genus Spirostomum.

- OLIVIERE, James. Studies on the nutrition of two species of the genus *Vorticella* with emphasis on the metal requirements.

- SMITH, JR., Sidney Randall. Induction of lens and lentoid bodies in the chick embryo by the mouse optic vesicle.

University of Idaho

- METTER, Dean Edward. A morphological and ecological comparison of two populations of *Ascarpus truei* Stejneger.

DOCTORAL DISSERTATIONS 1962-1963

University of Illinois

- AL-RADHAWY, Majid Ahmed. Studies on the differentiation of the Golgi apparatus in nerve cells of the chick during embryonic and post-embryonic development.
- ANDERSON, John Fredric. Effect of thermal stress on dimorphism of subarctic aedine mosquitoes (Diptera: Culicidae).
- DYSART, Margaret Pratt. A study of macronuclear chromatin extrusion in species of the genus *Tetrahymena*, with a review of this and related phenomena occurring in all ciliate protozoa.
- MEYER, Ronald Harmon. Field evaluation of *Bacillus thuringiensis* Berliner as a microbial insecticide for use in insect control practices in Illinois apple orchards.
- MOYE, William Charles. The effects on some arthropods of large-scale applications of granular insecticides in Iroquois County, Illinois.
- ROBBINS, Clyde Elliott. Studies on the taxonomy and distribution of the Gastrotricha of Illinois.
- SANFORD, James Walker. Observations on the biology and control of the dusky sap beetle, *Carpophilus lugubris* Murray, infesting sweet corn in Illinois.
- STEWART, Thomas Bonner. Environmental factors affecting the survival and development of *Strongyloides ransomi* with special reference to its free-living stages.
- WHITTAKER, Frederick Horace. Contributions to our knowledge of the nematode *Rhabditis strongyloides* (Schneider, 1866) Oerley, 1880.
- ZIMMERMAN, John Lester. The bioenergetics of the dickcissel, *Spiza americana*.

Indiana University

- DeCOSTA, John James. Latitudinal distribution of chydorid Cladocera in the Mississippi Valley, based on their remains in surficial lake sediments.
- FRYE, Sara Helen Comley. A study of minute structural changes of chromosomes in *Drosophila*.
- GOULDEN, Clyde Edward. The history of the cladoceran fauna of esthwaite water (England) and its limnological significance.
- HAYDEN, James Franklin. Subsidiary effects of glucagon. a. Effects on blood pressure. b. Effects on growth in the embryonic and post-embryonic chick.
- HENNEN, Sally Hubbard. A cytological and embryological analysis of the nuclear changes occurring in a lethal amphibian hybrid (*Rana sylvatica* ♀ x *Rana pipiens* ♂).
- HOBBIE, John Eyres. Limnological cycles and primary productivity of two lakes in the Alaskan Arctic.
- LUNGER, Philip duPont. The fine structure of growth zones of the colonial hydroid, *Campanularia*.
- MEGARD, Robert Ordell. The biostratigraphic history of Dead Man Lake, Chuska Mountains, New Mexico.
- MUELLER, Wayne Paul. The distribution of cladoceran remains in surficial lacustrine sediments from three northern Indiana lakes.

Iowa State University
of Science and Technology

- BROOKS, Derl Len. Entomogenous fungi of corn insects in Iowa.
- CALENTINE, Robert Leland. The life cycle of *Archigetes iowensis* (Cestoda: Caryophyllidea).
- CUNNINGHAM, Virgil Dwayne. Factors that influence hatching in *Diabrotica longicornis* (Say).

FRENCH, JR., Frank Elwood. Biology and morphology of *Demodex canis*.

PASCHALL, Homer Donald. Effects of feeding emulsifiers on reproduction of C57BL/6 mice.

THOMSON, Joan Leigh. Development of integumentary derivatives in the chick embryo as studied by histochemical and grafting techniques.

TONE, Jim Norland. Histochemical effects on liver from C57BL/6 jax mice fed selected Tweens.

University of Kansas

BARDACK, David. A revision of fossil and living chirocentrid fishes.

GAUNT, Abbot Stott. Fossorial adaptations in the bank swallow, *Riparia riparia* (Linnaeus).

LAWRENCE, JR., Irvin Emmett. An experimental analysis of comb development in the chicken.

LONG, Charles A. The mammals of Wyoming.

Kansas State University

JANES, Donald Wallace. The reproductive system of the prairie vole, *Microtus ochrogaster*.

KREHBIEL, Eugene Billy. Differentiation of gonads in the bovine embryo.

VATNE, Robert Dahlmeier. Aspects of the biology of *Heterakis gallinarum* (Nematoda) in chickens and their host-parasite relations.

WEATHERLY, Norman Fred. *In vitro* and -vivo uptake of carbon-14 labeled alanine and glucose by *Ascaridia galli*, parasitic nematode of chickens.

Lehigh University

MIHURSKY, Joseph Anthony. Fishes of the middle Lenapehiahittuck (Delaware River) Basin.

Louisiana State University

ABADIE, Stanley H. The immunology and serology of various *Strongyloides* species.

AGARWAL, Ram Autar. *Diatraea saccharalis* (Fabr.) and some related pyralid stem borers in Louisiana.

ATTIAH, Hassan Hamed. Population dynamics of spider mites influenced by DDT.

BERRETT, Delwyn Green. A distributional study of the birds of the Mexican state of Tabasco.

GRAVES, Jerry Brook. Toxicological and metabolic response of the bollworm *Heliothis zea* (Boddie), to DDT.

OLIVER, JR., Abe Douglas. An ecological study of the fall webworm, *Hyphantria cunea* (Drury) in Louisiana.

QAZI, Mahmood Husain. Bioassay and histochemical evaluation of pituitary prolactin in estrus, gestation and pregnancy: hamster.

WILSON, Bobby Horace. Some aspects of the biology, ecology and behavior of horse flies (Diptera: Tabanidae) in Louisiana.

University of Louisville

WILLIAMS, John C. The biology of the silver chub, *Hybopsis storeriana* (Kirtland) in the Ohio River Basin.

University of Maryland

McCOMB, Charles Wight. A revision of the *Cheilonus* subgenus *Microchelonus* in North America north of Mexico (Hymenoptera: Braconidae).

OWENS, Howard Beauchamp. A study of the effect of conservation farming on populations of beneficial and destructive insects.

STOUT, John Frederick. Sound communication during the reproductive behavior of *Notropis analostanus* (Pices: Cyprinidae).

McGill University

CARTER, John Charteris Haig. The hydrography and plankton of Tessiarus, a coastal meromictic lake of northern Labrador.

MCPhAIL, John Donald. Postglacial dispersal of freshwater fishes in northern North America.

RANDELL, Robert Latham. A study of the male genitalia of the crickets belonging to the subfamily Gryllinae (Orthoptera: Ensifera: Grylloidea) and its relationship to taxonomy.

University of Miami

KHANDKER, Nurul Alam. A program for fisheries development with special reference to the underdeveloped countries.

MANNING, Raymond B. A monograph of the stomatopod crustaceans of the western Atlantic.

The University of Michigan

AL-SAADI, Abdul-amir Majeed. The micro and gross osteology of the largemouth bass, *Micropterus salmoides* (Lacepede), with special reference to the non-cellular bone.

BRANDELL, Bruce Reeves. An investigation of the forearm and hand flexors of *Didelphis marsupialis virginiana* Kerr.

CAREW, Evan Bayne. The control of a contraction cycle by pyrophosphate and other ions in glycerinated muscle fibers.

COHN, Theodore Joel. The systematics of Rehnia and Neobarrettia (Orthoptera: Tettigoniidae) and a reconstruction of their history.

HALL, James Dane. An ecological study of the chestnut lamprey, *Ichthyomyzon castaneus* Girard, in the Manistee River, Michigan.

HEARD, William H. Some comparative life histories of pill clams (Sphaeriidae: Pisidium).

MARZOLF, George Richard. Substrate relations of the burrowing amphipod *Pontoporeia affinis* Lindstrom.

MISCH, Donald William. The relationship of phosphomonoesterases to histolysis of larval tissues in the flesh-fly, *Sarcophaga bullata* (Parker).

OTERO, Joseph Guillermo. The toxicity of *Schistosoma mansoni* *in vitro*.

RASMUSSEN, David Irvin. Blood group inheritance, polymorphism and inbreeding in natural populations of the deer mouse, *Peromyscus maniculatus*.

Michigan State University

KEVERN, Niles Russell. Primary productivity and energy relationships in artificial streams.

THRONEBERRY, Jimmy B. Studies on the differentiation of hemoglobin in *Rana pipiens*.

University of Minnesota

GREEN, Jonathan Pascal. An analysis of morphological color change in two species of brachyuran crustaceans.

LUKENS, JR., Paul Woolman. Some ethnozoological implications of mammalian faunas from Minnesota archeological sites.

NEILSON, Murray Morris. Pathogenicity and host relationships of a cytoplasmic polyhedrosis virus introduced against the winter moth, *Operophtera brumata* (L.) (Geometridae, Lepidoptera) in Nova Scotia.

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SCHMID, William Dale. Some aspects of the water economies of nine species of anuran amphibians.

SCHURR, Karl Max. Some factors affecting oviposition in the European corn borer, *Ostrinia nubilalis* (Hub.).

SEABLOOM, Robert Wallace. Adrenocortical activity in the meadow vole.

Mississippi State University

BANCROFT, Harold Ramsey. Environmental effects on diapause in *Anthonomus grandis* Boh.

University of Missouri

BROWN, Larry Nelson. Ecology and reproduction of *Peromyscus boylii*, *P. leucopus*, and *P. maniculatus* in the Ozark Mountains.

FICKESS, Douglas Ricardo. Seasonal sudanophilic variation in the cottontail (*Sylvilagus floridanus*) adrenal cortex.

LAWRENCE, Addison Lee. Phosphatases of the mucosal epithelium of the small intestine and transport of some sugars across the small intestine of the bullfrog *Rana catesbeiana* (Shaw).

MARSDEN, Halsey Means. Social behavior in the cottontail rabbit.

PEDERSON, Vernon Clayton. Ulcerative enteritis in the cottontail rabbit (*Sylvilagus floridanus*).

Montana State College

GITTINS, Arthur Richard. Revision of the species of *Psenini* in America north of Mexico (Hymenoptera: Sphecidae).

VAN HORN, Saralee Amy Neumann. The embryogenesis and embryonic variability of *A. elliotti* (Acrididae, Orthoptera).

Montana State University

CHOATE, Thomas Scribner. The biology of the white-tailed ptarmigan (*Lagopus leucurus*) in Glacier Park, Montana.

The University of Nebraska

KANTACK, Benjamin Harrison. The biology and ecology of *Trogoderma glabrum* (Herbst) in stored grains.

YOWELL, Hoyt Monroe. A comparative study of the parasympathetic cranial ganglia of two species of opossum: *Didelphis marsupialis virginiana* (Kerr) and *Trichosurus vulpecula* (Kerr).

University of New Hampshire

DAVIS, John Dunning. A study of the arctic wedge clams, *Mesodesma deauratum* (Turton) and *Mesodesma arctatum* (Conrad) of the northwestern Atlantic.

DETWYLER, Robert. Some aspects of the biology of the seasnail, *Liparis atlanticus* (Jordan and Evermann).

LEAVITT, Wendell William. Influences of legumes on the physiology of mice.

NORMANDEAU, Donald Arthur. The life history of the round whitefish *Prosopium cylindraceum* (Pallas) of Newfound Lake, N. H.

SIMON, Joseph Leslie. Reproduction and larval development of the spionid polychaete *Spio setosa* Verrill.

New York University

ASTERITA, Harvey Louis. Pressure-temperature studies on the hyaline membrane of sea urchin eggs.

NAPOLITANO, Joseph James. Studies on the life history of an amoeboflagellate isolated from New Rochelle soil.

The University of North Carolina at Chapel Hill

ELLER, James Gerald. Seasonal regulation in *Pachydiplex longipennis* (Burmeister) (Odonata: Libellulinae).

North Carolina State of the University of North Carolina at Raleigh

DUCKWORTH, Walter Donald. The genera of Western Hemisphere Stenomidae (Lepidoptera).

North Dakota State University

ONSAGER, Jerome Andrew. Characteristics of eggs and egg-pods of North Dakota Acrididae and studies of sites selected for oviposition.

Northwestern University

HINNI, John Barry. Modified development of the duodenum of chick embryos hypophysectomized by partial decapitation.

The Ohio State University

AUGUSTINE, Mithra Gandham. Studies on host plant selection by the Mexican bean beetle, *Epilachna varivestis* Muls.

BACHOP, William Earl. Feulgen microphotometry of periblast nuclei in the muskellunge embryo (Clupeiformes: Esocidae).

BRUNGS, JR., William Aloysius. The relative distribution of multiple radionuclides in a freshwater pond.

DAWSON, JR., Wallace Douglas. Experimental hybridization between *Peromyscus maniculatus* and *P. polionotus* with special reference to physiological isolation and size inheritance.

HUBSCHMAN, Jerry Henry. The development and function of neurosecretory sites in the eyestalks of larval Palaemonetes (Decapoda: Natantia).

JULYAN, Frederick John. Observations on some aspects of the structure and ultrastructure of the pineal organ in the American brook lamprey, *Lampetra lamottei* (Le Sueur).

KANUNGO, Kalpataru. Oxygen uptake in relation to water balance of a mite in unsaturated air.

KOSZTARAB, Michael. The armored scale insects of Ohio (Homoptera: Coccoidea: Diaspididae).

SECHRIEST, Ralph Earl. The biology of the lesser clover leaf weevil, *Hypera nigrirostris* (Fab.) (Coleoptera: Curculionidae) in Ohio.

SNYDER, Donald Benjamin. The effects of endrin on vole (*Microtus pennsylvanicus*) reproduction in bluegrass meadows.

WHITE, Richard Earl. A revision of the genus *Tricorynus* of North America (Coleoptera: Anobiidae).

ZENISEK, Cyril James. A study of the natural history and ecology of the leopard frog, *Rana pipiens* Schreber.

The University of Oklahoma

ESCH, Gerald Wisler. Comparative carbohydrate metabolism of adult and larval *Multiceps serialis*.

LYNN, Robert Thomas. Comparative behavior of the horned lizards, genus *Phrynosoma*, of the United States.

MURPHY, Clifford Elyman. The development of a plankton community in a new impoundment in Wise County, Texas.

Oklahoma State University

COPELAND, Billy Joe. Oxygen relationships in oil refinery effluent holding ponds.

DOUGLAS, Neil Harrison. Evaluation and relative resistance of sixteen species of fish as test animals in toxicity bioassays of petroleum refinery effluents.

GOERTZ, John William. Influence of habitat quality upon density of cotton rat populations.

GOULD, III, William Robert. The suitabilities and relative resistances of twelve species of fish as bioassay animals for oil-refinery effluents.

JONES, Robert Earl. A comparative study of the habitats of the lesser and greater prairie chicken in Oklahoma.

KINZER, Henry Grant. The effects of insect populations on seed production of *Sorghum vulgare* (Pers.).

MARQUARDT, Richard Earl. Ecology of the migrating and wintering flocks of the small white-cheeked geese within the South Central United States.

MOUNT, Gary Arthur. The use of factorial experiments to determine the sensory perception of various bait factors by *Musca domestica* L.

OLIVER, JR., Kelly Hoyet. Casual factors of population variation in the algae of a papermill waste water pond system.

OVERMIRE, Thomas Gordon. The effects of grazing upon habitat utilization of the dickcissel (*Spiza americana*) and Bell's vireo (*Vireo bellii*) in north central Oklahoma.

PARKER, Henry Lee. Natural history and characteristics of *Pimephales vigilax* (Baird and Girard).

PRICE, Richard Graydon. Evaluation of repellents with four species of roaches.

WHITWORTH, Walter Richard. Oxygen requirements of thirteen species of fishes in relation to exercise.

Oregon State University

BRASWELL, JR., Audrey Lee. The ecology of *Lepidurus apus* in northern Utah and some limnological requirements for hatching.

DANFORTH, Charles Garrison. Bopyridian (Crustacea, Isopoda) parasites found in the eastern Pacific of the U. S.

DAVIS, Gerald Evert. Trophic relations of simplified animal communities in laboratory streams.

University of Pennsylvania

DeCARO, Thomas Francis. Some properties of a fatigue factor expressed from stimulated frog gastrocnemius muscles.

FELDHERR, Ailene Blizzard. Protein yolk utilization in the Cecropia embryo.

GREEN, George Walter. Spontaneous locomotor activity in the blowfly, *Phormia regina* Meig.

STEERS, JR., Edward. A biochemical study of immobilization antigens of *Paramecium aurelia*.

The Pennsylvania State University

CAMPBELL, James Arthur. The littoral phytomicrofauna and benthos of a pond and a portion of a creek in northwest Florida.

FREHN, John Lee. Cellular respiration and phosphorylation during cold exposure in rats and chipmunks.

HARCLEROADE, Jack Edgar. The role of the thyroid gland in the acclimation of rats to reduced barometric pressures.

MALLETTTE, John Michael. Growth in culture of trypsin dissociated thyroid cells from control and altitude acclimated rats.

DOCTORAL DISSERTATIONS 1962-1963

MILLER, JR., John Wesley. The effect of barley yellow dwarf virus on the biology of its vector, the English grain aphid, *Macrosiphum granarium* (Kirby).

SPENCER, Selden James. A study of the physical characteristics of nesting sites used by bank swallows.

VANDENBERGH, John Garry. Analysis of the aggressive behavior of starlings as affected by photoperiodic manipulation.

ZIEGLER, Frederick Dixon. Respiration and phosphorylation in liver homogenates from rats exposed to hypoxia and food restriction.

University of Pittsburgh

SHONTZ, Charles Jack. The effects of altitude and latitude on the morphometry, meristics, growth and fecundity of the eastern blacknose dace, *Rhinichthys atratulus atratulus* (Hermann).

Purdue University

GREVE, John Henry. Effects of thyroid and biotin deficiencies on canine demodicosis.

WHITLEY, Larry Stephen. Studies on the biology of Tubificidae.

University of Rhode Island

MISRA, Pyari Mohan. Studies on growth and development of teleost eggs with special reference to deuterium enriched environments.

STAGGERS, Buel Alexander. Glycine-1-C¹⁴ studies on the mechanism of homograft rejection in *Rana pipiens*.

Rutgers - The State University

ADAMS, JR., Walter C. Cholesterol metabolism in rats bearing cystic ovaries.

EBLE, Albert F. The circulatory system of the American oyster, *Crassostrea virginica* Gmelin.

FISHER, Cynthia. The effect of protein nutrition on protein metabolism in the pregnant rat.

FORREST, Helen Frey. Three problems in invertebrate behavior.

THOMPSON, George Elwood. Alloxan and hypersensitivity.

VALLEAU, William Gray. The effect of dietary protein and cortisone acetate on metabolism in the normal and tumor-bearing rat.

ZOLNA, Heldon Emanuel. Serological studies pertaining to ribose nucleic acid and deoxyribose nucleic acid.

Stanford University

BRADBURY, Margaret Gertrude. Redefinitions of the genera of the fish family Ogcoccephalidae.

FIELDS, William Gordon. The structure, development, food relations, reproduction and life history of the squid *Loligo opalescens* Berry.

KOCH, William Edward. Transmission of radioactive materials during embryonic induction *in vitro*.

State University of Iowa

BUHSE, JR., Howard Edward. An analysis of macrostome production in *Tetrahymena vorax* V₂ S.

CLAMPITT, Philip Theodore. The comparative ecology of the snails, *Physa gyrina* and *Physa integra*.

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SMALLEY, Katherine Norton. The neutral regulation of respiration in the cockroach, *Blaberus craniifer*.

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University of Tennessee

BLAYLOCK, Billy Gordon. Chromosomal aberrations in a natural population of *Chironomus tentans* exposed to chronic low-level environmental radiation.

GRIMM, James Kyle. A population study of land arthropods in a heath bald and minor ecological observations.

JOB, Paramal Simon. Some effects of irradiating successive generations of *Hymenolepis diminuta*.

MARTIN, Robert E. Growth and movement of smallmouth buffalo, *Ictiobus bubalus* (Rafinesque), in Watts Bar Reservoir, Tennessee.

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BERECZKY, Elizabeth Sophia. Virus-host relationship of the tumor-inducing virus polyoma: correlative light, phase, fluorescence and electron microscope studies.

BRADSHAW, William Newman. Variation of the wood-mouse, *Peromyscus leucopus*, under linear patterns of distribution in Texas.

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Tulane University

BAQAI, Izhar Uddin. Studies on the postembryonic development of the fairyshrimp *Streptocephalus sealii* Ryder.

BLACK, Joe Bernard. Comparison of the male reproductive cycles in the dwarf crawfishes *Cambarellus shufeldti* (Faxon) and *Cambarellus puer* Hobbs.

CHIPMAN, Robert Kenneth. Age determination of the cotton rat, *Sigmodon hispidus*, based on known-age specimens.

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FUNK, William Henry. Growth and control of algae in Deer Creek Reservoir.

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NEBEKER, Alan V. Bioassays to determine the toxicity of pesticides to the amphipod crustacean, *Gammarus lacustris* Sars.

PETERSEN, James J. Bionomics of the mosquito *Aedes nigromaculatus* (Ludlow) in Utah.

RABE, III, Frederick W. Effect of fertilization on four alpine lakes in the Uinta Mountains.

RAHMAN, Syed Jamilur. Effects of internally deposited plutonium -239 on the lymphatic tissue of dogs.

Utah State University

ANDERSEN, Ferron Lee. The site of the immune reaction against *Eimeria bovis* in calves and the demonstration of antibodies by immunofluorescence.

JENSEN, Emron Alfred. A morphological and cultural study of trichomonads and other flagellates of the bovine digestive tract.

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LOWDER, Lyle Junior. The demonstration of humoral antibodies against *Eimeria bovis* in cattle.

WORKMAN, Gar William. The ecology of the Bear Lake littoral zone, Utah-Idaho.

Vanderbilt University

FORD, Floyd Mallory. A taxonomic and ecological study of the epigaeic Collembola (Isotomidae) of the central basin of Tennessee.

Washington State University

WATERHOUSE, Joseph Stallard. Biology of the garden symphyd, *Scutigerella immaculata* Newport.

ZWICK, Robert Ward. The effects of aeration, protectants, vapor toxicants, and cold hardiness to stored grain insects.

Washington University

CHIARODO, Andrew Joseph. The effects of mesothoracic leg disc extirpation on the postembryonic development of the nervous system of the blowfly, *Sarcophaga bullata*.

University of Washington

GOODING, Richard Ulrich. External morphology and classification of marine poecilostome copepods belonging to the families Clausidiidae, Clausiidae, Nereicolidae, Eunicicolidae, Synaptophilidae, Catinidae, Anomopsyllidae, and Echiphilidae.

LARSEN, JR., John Herbert. The cranial osteology of neotenic and transformed salamanders and its bearing on interfamilial relationships.

MILLER, David Clare. The Hydrophilidae of the Pacific Northwest exclusive of the Elophorinae and the Sphaeridiinae.

SMITH, Lynwood Stephen. Some aspects of peripheral circulation in *Octopus dofleini*.

SIRIBHIBADH, Arporna. Seasonal variations of paralytic shellfish toxicity in the California mussel, *Mytilus californianus* Conrad, and the Pacific oyster, *Crassostrea gigas* (Thunbert), along the Strait of Juan De Fuca and in Willapa Bay.

VERNER, Jared. Aspects of the ecology and evolution of the long-billed marsh wren.

The University of Wisconsin

AVERY, John Arthur. A study of the haemocytes of the grasshopper, *Melanoplus differentialis* (Thomas) (Orthoptera: Acrididae).

BLAZKOVEC, Andrew August. Factors affecting the primary and secondary response to bovine serum albumin in the chicken.

CHALLEY, John Raymond. Adrenal response in chickens infected with the protozoan parasite, *Eimeria tenella*.

DURAISWAMI, Sundaravaradan. The preparation and biological properties of follicle stimulating hormone from sheep pituitary glands.

FABER, Daniel James. Larval fish from the pelagic region of two Wisconsin lakes.

GOERING, John James. Studies of nitrogen-fixation in natural fresh waters.

HYMER, Wesley Craig. The isolation of rat pituitary granules and the study of their biochemical properties and hormonal activities.

KNOKE, John Keith. Systemic insecticide for the control of insects attacking potatoes.

MCLEOD, Dougald Glenn Ross. The physiology of diapause in the European corn borer (*Ostrinia nubilalis* (Hüb.)).

MUELLER, Helmut Charles. Homing and distance-orientation in bats.

NAGRA, Clarence L. Relation between stress, energy requirements and steroid hormones in birds.

NUTTING, Ehard Forrest. Hormonal regulation of delayed implantation in the ovariectomized rat.

RADCLIFFE, Edward Bruce. Plant resistance to insect attack in cruciferous crops.

SCHLUETER, Edgar A. Microelectrophoretic studies of serum proteins of chickens infected with *Eimeria tenella*.

WARNOCK, John Edward. The effects of crowding on the survival of meadow voles (*Microtus pennsylvanicus*) deprived of cover and water.

WOODS, Roy. Factors affecting the immune response of chickens.

University of Wyoming

ENDERSON, James Harris. Ecology of the prairie falcon (*Falco mexicanus* Schlegel) in the central Rocky Mountain region.

FINZEL, Jean E. Avian populations of four herbaceous communities at various elevations in southeastern Wyoming.

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Soil Science

University of British Columbia

HATTINGH, Willem Hendrik Jacobus. The nitrogen and phosphorus requirements of microorganisms in activated sludge.

ASTRONOMY

Princeton University

GAUSTAD, John Eldon. The opacity of diffuse cosmic matter and the early stages of star formation.

GUSSIN, Arnold E. S. Lipid metabolism in the Mediterranean meal moth, *Ephestia kuhniella* Zeller, during maintenance, growth and metamorphosis.

SAMIS, Jr., Harvey Voorhees. Studies of the structures of metal complexes present in a non-enzymatic glycine activating system.

SANFORD, Barbara Hendrick. A genetic study of modified susceptibility to tumor transplants in reciprocal resistant backcross hosts.

University of Notre Dame

MESCHER, Sister Alma Louise. A comparative analysis of the morphology and postembryonic development of the salivary glands of *Aedes aegypti* (L.) (Diptera: Culicidae).

Princeton University

DOUGHERTY, William John. Combined histochemical and electron microscopic studies of dividing cells of regenerating rat liver, with special reference to lysosomes.

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PETROPULOS, Stephen Frederick. Physiological aspects of synchronous division in *Euglena gracilis*.

SPEER, Henry Lee. Studies on the physiology and biochemistry of the red alga *Porphyridium cruentum* Naegeli.

ANATOMY

University of Notre Dame

KLEMM, William Robert. Protection against x-irradiation by psychotropic drugs and adrenal-pituitary function on rabbit behavior and brain electrical activity.

Medical College of Virginia

MANNING, John Paul. Effects of diethylstilbestrol on B-glucuronidase activity of hamster liver and kidney.

SHERIDAN, Michael Ney. Fine structures of the mammalian adrenal cortex and its homologue in some lower vertebrates.

SUTER, Daniel Blosser. A study of acute changes in rat brain induced by X-irradiation.

BIOGRAPHY

Princeton University

HUGHES, David Franklin. Salmon P. Chase: Chief Justice.

BIOLOGY-GENETICS

Brown University

AUGUSTINE, John McDonell. Compensatory growth of the exocrine pancreas in the rat.

BOSHIER, Denys Peter. Some analyses of reproductive performance in inbred mice and their progeny.

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University of British Columbia

- SMITH, Richard Barrie. Edaphic aspects of an ecological classification of the interior western hemlock dry subzone forests of British Columbia.
- TUSKO, Frank Ferenc. A study of variability in certain Douglas-fir populations in British Columbia.

University of Notre Dame

- MARTIN, Sister M. Celine. An ecological life history of *Geranium maculatum*.

CHEMISTRY**General**

University of British Columbia

- GILSON, Denis Frank Robert. Nuclear magnetic resonance and infra-red spectroscopic studies on clathrates and weak charge transfer complexes.
- McANDREW, Robert Thomson. Carbon monoxide reduction of aqueous silver acetate.
- MIRHEJ, Michael Edward. Studies on dissolved molecular oxygen in pure and sea water.

Brown University

- DANKLEFF, Mary Floog. Solvent effects on nucleophilic displacement on oxygen: the oxidation of thioxane by hydrogen peroxide.
- NEALEY, Richard Howard. A study of the effect of conformation on the dipole moments of some rigid carbocyclic alcohols.
- STEVENSON, Kenneth Knox. Synthesis, structure and reactions of 1, 2-dihydro-2-naphthol: a study of base catalyzed epoxide rearrangements.

Princeton University

- SANE, Krishna Vishnu. A study of isotropic and anisotropic hyperfine effects in the electron spin resonance spectra of 2,2-diphenyl-1-picrylhydrazyl and other closely related organic free radicals.

Analytical

Princeton University

- KNIGHT, William Stetson. Thermodynamics of aqueous solutions of alcohols and p-dioxane.

Biological

University of Notre Dame

- PUSHPATHADAM, Joseph J. The erythropoietic factors in anemic rabbit plasma.

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University of British Columbia

- CAVELL, Ronald George. The fluorides of vanadium.
- SADANA, Yoginder Nath. Chromium tetrafluoride and related compounds.

University of Notre Dame

- KLEBACHER, Frederick Roy. Infrared spectra and solid state reactions of aryl amine-metal halide complexes.
- PENNARTZ, Phillip L. Redistribution reactions among alkylalkoxyboranes and trialkoxyboranes.
- PETRA, Sister Mary Rosaria. Infrared spectra of cyanate complexes and solid state reactions of some copper (II) coordination compounds.
- SCHAFFER, Sister Michael. Absorption spectra and electric moments of coordination complexes of cobalt (II).

Nuclear

Princeton University

- PROSPERO, Joseph Michael. Studies of radioactive decay in the region of deformed nuclei.

Organic

University of British Columbia

- BROWN, Alistair Chalmers Ramsay. A kinetic study of the addition of the ethyl radical to conjugated dienes and related compounds.
- CSIZMADIA, Imre Gyula. Synthesis and photolysis of aromatic nitrate esters.
- LEE, Donald Garry. Mechanism of the chromic acid oxidation of alcohols.
- O'DONNELL, Joseph Patrick. The H-function and the acidity of aromatic amines.

Brown University

- IACONA, Robert Nicholas. The reactions of dimethyl sulfoxide with α -bromo-ketosteroids.
- NELANDER, David Hoover. The application of the benzilic acid rearrangement to the preparation of A-nor-5 α -pregnanes.

University of Notre Dame

- BRETT, Thomas Joseph. The epimerization of substituted cyclohexanols.
- HOFMAN, Emil Thomas. Some novel chelating polymers. I. Model compounds.
- SULKOWSKI, Thomas Stephen. The synthesis of some substituted dimethoxypyridines and trimethoxypyridines.
- TAFT, Lewis George. The synthesis and polymerization of certain quinone methides.

Princeton University

- GOLDSTEIN, Paul. Single-crystal X-ray determination of the structures of dimethylphosphino-borine tetramer and tetrakis (ethylenediamine)- μ -amido- μ -nitrocobalt (III) nitrate.

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HAHN, Edmund Alexander Joachim. Kinetics of copper reduction by hydrogen from aqueous solutions.

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VOIGT, Eva-Maria. Double charge transfer absorption in solution.

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Princeton University

BOCHNER, Martin Barry. A study of the Willgerodt reaction with optically active ketones.

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SHEN, Mitchel Ming-chi. The viscoelastic properties of hydrogen bonding and preswollen polymer networks.

TAYLOR, Hugh Alan. Studies on vanadium (V)-oxalate complexes and a new photochemical actinometer.

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Brown University

HAYES, David Goodwin. Business velocity and the cash-asset ratio, 1946-1958.

MARCUS, Matityahu. Capital-output ratios and their variations.

RAYMOND, Richard Delos. Interaction between discrimination, interregional migration and regional economic development.

ROMANS, John Thomas. Capital exports and growth among U. S. regions.

ROSS, Philip. The government as a source of union power: an examination and evaluation of the role of the duty to bargain.

Princeton University

HEITMANN, George Joseph. An econometric study of the regional growth of the footwear industry.

SINGER, Eugene Martin. The concept of economic leverage in antitrust.

Commerce-Business

Princeton University

ASCH, Peter. Industry structure and performance.

HOLLANDER, Samuel. The sources of increased efficiency: a case-study of Du Pont rayon-manufacturing plants.

WILLIAMSON, John Harold. Patent licensing and royalty terms.

Finance

Brown University

PETERSEN, Harold Allan. Risk and the capital structure of the firm.

History

Princeton University

DEBS, Richard Abraham. The law of property in Egypt: Islamic law and civil code.

Theory

University of Notre Dame

MASSARO, Vincent Gerard. Divergent views of Marx's increasing misery doctrine.

Princeton University

MELLON, Walter Giles. An approach to a general theory of priorities: an outline of problems and methods.

EDUCATION**General**

University of Notre Dame

BAER, Rev. Campion Robert. The development of accreditation in American Catholic seminaries, 1890-1961.

Administration

University of Notre Dame

MEYERS, Rev. William Frederick. The role of the lay teacher in Catholic education.

History

University of Notre Dame

MACKEY, Rev. John. The passing of the New Zealand Education Act, 1877. The genesis of a state school system in the nineteenth century.

WAGENER, Sister M. Gabrieline. A study of Catholic opinion on federal aid to education, 1870-1945.

Teacher Training

University of California, Berkeley

GARZON, Dionisio Padul. An analysis of the problems of teaching elementary science in the Philippine public schools.

ENGINEERING**General**

Brown University

AKCOGLU, Mustafa Agah. Diffraction by composite cylinders.

WALLACE, JR., James. Uniform second-order flow over three-dimensional bodies.

Aeronautical

Princeton University

BRZUSTOWSKI, Thomas Anthony. Vapor-phase diffusion flames in the combustion of magnesium and aluminum.

COHEN, Ira Myron. Theory of spherical electrostatic probes in a slightly ionized, collision-dominated gas, review and extension.

EVANS, Norman Arthur. Experimental laminar heat transfer from an oscillating flat plate.

HAGERUP, Henrik Johan. Linearized viscous flow near surface slope discontinuities.

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University of Notre Dame

SHIM, Joosup. Temperature and pressure effects on the diffusion coefficient of methane in the liquid phase of n-hexane.

Princeton University

ANDERSON, James Bernhard. The sticking probability of oxygen on single crystals of germanium.

ANDRES, Ronald Paul. Kinetics of nucleation in a single-component gas.

ANGUS, Richard Myers. Characterization of multiple variable process systems from random inputs.

BIESENBERGER, Joseph Albert. The preparation of bistranded hydro-carbon polymers from polybutadienes and their aromatization.

COLLINS, Morton. Application of boundary layer theory to laminar flow of pseudoplastic fluids.

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KIM, Young Gul. Studies of turbulent mixing by light-scattering method.

NOWAK, Edwin James. Probability of decomposition of methane molecules on silicon.

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University of British Columbia

JULIEN, Kenneth Stephen. Methods of investigating phenomena arising from non-linearities in power systems.

KASVAND, Tonis. Application of eigenvalue techniques in the analysis, compensation and synthesis of linear multivariable feedback control systems.

Princeton University

EICHELBERGER, Edward Baxter. Sequential circuit synthesis using hazards and delays.

POAGE, James Frederick. The derivation of optimum tests for logic circuits.

SCHORR, Herbert. Towards the automatic analysis and synthesis of digital systems.

SMITH, JR., George Wallace. Identification of the dynamics of linear systems through the use of generalized spectral coefficients.

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GALT, James Colquhoun. The deformation mechanisms in branched polyethylene melts.

HAMEL, Bernard Basil. A study of some mass transfer problems according to the kinetic theory of gases.

SMITH, Craig Gary. Some computer experiments with a one-dimensional plasma model.

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Brown University

DEMIR, Halil Halit. Analysis of cylindrical shells subjected to rings of force.

FOSDICK, Roger Lee. Some results in the theory of small elastic deformations superposed on large elastic deformations.

FINE ARTS

Princeton University

BELZ, Carl Irvin. The role of Man Ray in the dada and surrealist movements.

HAWES, JR., Louis. John Constable's writings on art.

McGRATH, Robert Leon. The romance of the Maccabees in mediaeval art and literature.

TURNURE, James Harvey. Ambrogio Figino: a study in eclectic mannerism. (2 vol.)

GEOLOGY

Princeton University

ANDERSON, JR., Alfred Titus. A contribution to the mineralogy and petrology of the Brule Lake Anorthosite Massif, Quebec.

BARNES, William Charles. Geology of the northeast Whitefish Range, northwest Montana.

CARD, Kenneth Darius Huycke. Geology of the Agnew Lake area, Ontario: a study in Pre-Cambrian stratigraphy, structure and metamorphism.

CHASE, Richard Lionel St. Lucian. The Imataca complex, the Panamo amphibolite and the Guri trondhjemite: Pre-Cambrian rocks of the Adjuntas-Panamo quadrangle, State of Bolivar, Venezuela.

HINNERS, Noel William. The solubility of sphalerite in aqueous solutions at 80°C.

MOORES, Eldridge Morton. Geology of the Currant area, Nye County, Nevada.

PALMER, Henry Currie. Geology of the Moncion-Jarabacoa area, Dominican Republic.

PICARD, Meredith Dane. Paleomagnetic correlation of units within the Chugwater formation, west-central Wyoming.

SAWKINS, Frederick John. Lead-zinc ore deposition in the light of fluid inclusion studies, Provincia, Zacatecas, Mexico.

SMITH, Alan Gilbert. Structure and stratigraphy of the northwest Whitefish Range, Lincoln County, Montana.

HISTORY**General**

Princeton University

KAPLOW, Jeffry Jacob. The social structure of Elbeuf (Seine-Maritime) during the revolutionary period, 1770-1815.

LUCAS, Allen Paul. Essays in the margin of Blackstone's Commentaries.

SAVAGE, David William. The Irish question in British politics, 1914-1961.

Ancient

Princeton University

THOMPSON, Wesley Eugene. The Athenian gold and bronze coinages of the Dekeleian war.

Archaeology

Brown University

PIERCE, Richard Holton. Three demotic papyri in the Brooklyn Museum.

Medieval

Brown University

GOLDSTEIN, Bernard Raphael. The commentary of Ibn al-Muthannā to the astronomical tables of al-Khwārizmī.

Modern

Brown University

WEAVER, Earl James. John Dewey: a spokesman for progressive liberalism.

University of Notre Dame

KESSLER, Sister M. Verona. The effects of the laic laws of 1901 and 1904 on the Benedictines in France.

Princeton University

ABOU-EL-HAJ, Rifa'at Ali. The Reisülküttab and Ottoman diplomacy at Karlowitz.

DOWNEY, Matthew Thomas. The rebirth of reform: a study of liberal reform movements, 1865-1872.

GILLETTE, J. William. The power of the ballot: the politics of passage and ratification of the fifteenth amendment.

HAUBEN, Paul Jacob. Spanish Protestant refugees in western Europe during the second part of the sixteenth century.

MONTER, JR., Edward William. The government of Geneva, 1536-1605.

ROSS, Steven Thomas. The war of the second coalition.

LANGUAGE AND LITERATURE**General**

Brown University

RODGERS, Catherine. Time in the narrative of *The Faerie Queene*.

University of Notre Dame

NANCE, Brother William L. A study of the thematic unity in the fiction of Katherine Anne Porter.

NOVELLI, Cornelius. Sir Gowther.

Classical

Princeton University

AMBROSE, Zuell Philip. The Homeric and early epic telos.

LENAGHAN, John O'Neill. A commentary on Cicero's oration: *De haruspicorum responso*.

PORTER, David Hugh. Book IV of Horace's *Odes*: an interpretive study.

TARÁN, Leonardo. *Parmenides*: a text with translation, commentary, and critical essays.

TRACY, Theodore James. Physiological theory and the doctrine of the mean in Plato and Aristotle.

Princeton University

ISANI, Mukhtar Ali. The Oriental tale in America through 1865, a study in American fiction.

Modern

Brown University

BRIDGES, William Emery. The family circle in American verse: the rise and fall of an image.

D'AVANZO, Mario Louis. Recurrent metaphors for poetry in John Keats's works.

GARNER, Stanton Berry. Harold Frederic; the major works.

PÉREZ DE LA DEHESA, Rafael. *El pensamiento de Costa y su influencia en la generación del 98*. (Spanish text)

ROBILLARD, Richard Harold. The rhetoric of Wallace Stevens: He that of repetition is most master.

RODRIGUEZ, Alfred. Introduction to the *Episodios Nacionales* of Benito Pérez Galdós.

University of Notre Dame

DUBUQUE, Remi Gerard. Samuel Johnson's *Idlers*: a study of satire, humor, and irony.

FADDOUL, Brother Germain Anthony. The harmonizing of faith and reason in Brownson's pre-Catholic experience.

LALLY, Sister Mary Aquin. A comparative study of five plays on the Becket story by Tennyson, Binyon, Eliot, Anouilh, and Fry.

LAWLESS, Sister Mary Kyran. The ceramics of Wallace Stevens: aspects of imagery and theme.

Princeton University

BULGIN, Randolph McGuire. Anthony Trollope's *The way we live now*: a study of its historical background and critical significance.

JOSEPHS, Herbert. Diderot and the dialogue of gesture and language.

LOOMIS, JR., Chauncey Chester. Thackeray, the satirist.

MARTIN, Nicholas. Thèmes sportifs dans le roman français de l'entre-deux-guerres.

REDWINE, JR., James Daniel. Ben Jonson's criticism of the drama.

SILVER, Philip Warnock. *Et in Arcadia ego*: a study of the poetry of Luis Cernuda.

SPARKS, Marion Kimberly. A geometry of time: a study of Hermann Broch's prose imagery.

TENNYSON, Georg Bernhard. Sartor called Resartus: a study of the genesis, style, and structure of Thomas Carlyle's *Sartor resartus*.

TREANOR, JR., Paul Arthur. Goethe's *Mignon* poems; their literary interpretation and the musical illustration of their poetic devices.

WINKLER, Julius Sherman. Johann Christian Günther: a study in contrasts and controversy.

MATHEMATICS

Brown University

BREUER, Shlomo. Some general results in linear viscoelasticity.

ROBERTS, Howard Mahlon. On the dual Pontryagin classes of a manifold.

SHEN, Mei-Chang. Problems in the theory of surf.

Linguistics

Brown University

VAN GINNEKEN, Eva Rotter. Antoine Furetiere's *Nouvelle allegorique*: a critical edition.

PHYSICS

SUN, Tze-Chien. A central limit theorem for non-linear functions of a normal stationary process.

TYNDALL, William Felker. A duality theorem for a class of continuous linear programming problems.

University of Notre Dame

DERWENT, John Edwin. On the realization of the Morse inequalities as equalities.

LAPPAN, Peter Ambrose. Some sequential properties of normal and non-normal functions with applications to automorphic functions.

MICHAELS, Sister Elizabeth Louise. A study of simple groups of even order.

Princeton University

ASH, Michael Edward. The Neumann problem on strongly pseudoconvex complex multifoliate manifolds.

BAUM, Paul Frank. Cohomology of homogeneous spaces.

BUMBY, Richard Thomas. On the foundations of diophantine approximation.

BUNGART, Lutz. Holomorphic functions with values in locally convex spaces and applications to integral formulas.

HARTSHORNE, Robert Cope. Connectedness of the Hilbert scheme.

HENSEL, Gustav Bernard. On the notational independence of various hierarchies of degrees of unsolvability.

RICHTER, Wayne Harvey. Systems of notations for the "constructively accessible" ordinals.

ROBINSON, Thomas Thacher. Interpretations of Kleene's metamathematical predicate Γ A in intuitionistic arithmetic n.

ROSEN, Michael Ira. Representations of twisted group rings.

SINGLETON, Robert Richmond. On minimal graphs of maximum even girth.

VEECH, William Austin. Almost automorphic functions.

WONNACOTT, Thomas Herbert. A Monte-Carlo method of obtaining the power of certain tests of location when sampling from non-normal distributions.

MICROBIOLOGY

University of Notre Dame

SUELTFUSS, Sister Elizabeth Anne. Biological properties of duck hepatitis virus.

PHARMACOLOGY

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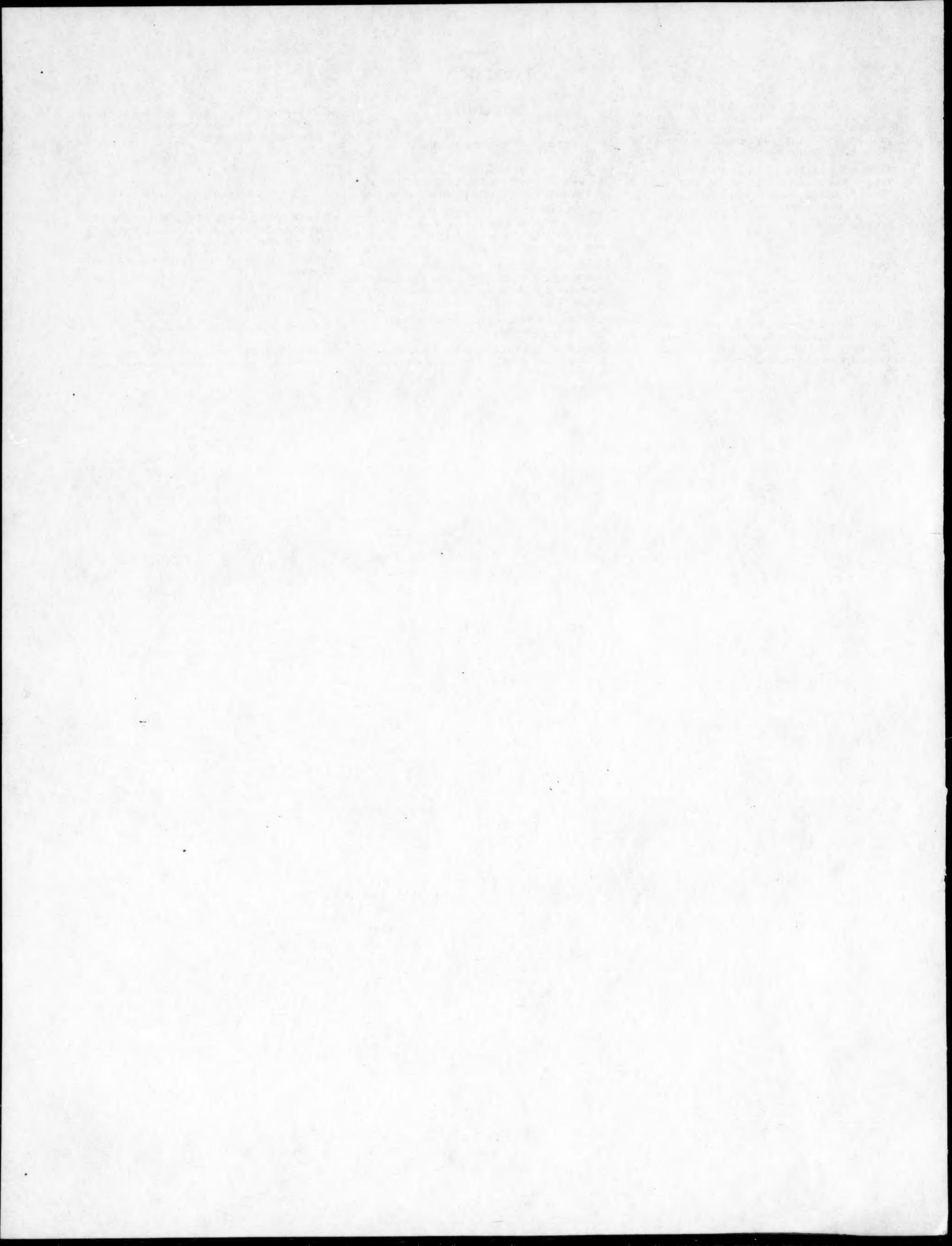
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